

Vicarious Contact PSRM Replication: Main Analysis

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Create Analysis + Plotting Functions: ATEs

```
####One Model ####

plot_generate_1 <- function(model_x, name_x, plot_title, xlim) {

  #create tidy df with robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
  models <- name_x_df

  #plot
  plot <- dwplot(models,
```

```

    vline = geom_vline(
      xintercept = 0,
      linetype= "dashed",
      color = "black"),
    dot_args = list(size=5, shape=c(15)),
    whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_long_collapse2 = "Intention-To-Treat Effect
                    of Vicarious Contact")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[1]),
  values = list("black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[1]),
  values=list(15)
)+
guides(color = guide_legend(override.aes=list(shape=c(15))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
      axis.text.x = element_text(size = 12),
      axis.text.y = element_text(size = 12),
      axis.title.x = element_text(size=12),
      legend.title = element_text(size=11, face="bold"),
      legend.text = element_text(size=10))

#reduce to three decimals
coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)

#add coefficient value
plot + annotate(x=models$estimate[1], y=0.9, label=coef_1,geom="label", color="black")
}

#Short videos
plot_generate_1_short <- function(model_x, name_x, plot_title, xlim) {

  #create tidy df with robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove inter
  models <- name_x_df

  #plot
  plot <- dwplot(models,
    vline = geom_vline(
      xintercept = 0,

```

```

    linetype= "dashed",
    color = "black"),
    dot_args = list(size=5, shape=c(15)),
    whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_short_collapse = "Short Videos vs.
                    Empty Control")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[1]),
  values = list("black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[1]),
  values=list(15)
)+
guides(color = guide_legend(override.aes=list(shape=c(15))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
      axis.text.x = element_text(size = 12),
      axis.text.y = element_text(size = 12),
      axis.title.x = element_text(size=12),
      legend.title = element_text(size=11, face="bold"),
      legend.text = element_text(size=10))

#reduce to three decimals
coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)

#add coefficient value
plot + annotate(x=models$estimate[1], y=0.9, label=coef_1,geom="label", color="black")
}

####Two Models####
plot_generate_2 <- function(model_x, model_y, name_x, name_y, plot_title, xlim) {

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove intercept
  models <- rbind(name_x_df, name_y_df)

#plot
plot <- dwplot(models,

```

```

    vline = geom_vline(
      xintercept = 0,
      linetype= "dashed",
      color = "black"),
    dot_args = list(size=5, shape=c(15,16)),
    whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_long_collapse2 = "Intention-To-Treat Effect
                    of Vicarious Contact")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[2], models$model[1]),
  values = list("black", "black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[2], models$model[1]),
  values=list(15,16)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:16))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
      axis.text.x = element_text(size = 12),
      axis.text.y = element_text(size = 12),
      axis.title.x = element_text(size=12),
      legend.title = element_text(size=11, face="bold"),
      legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)

plot + annotate(x=models$estimate[2], y=1.3, label=coef_2,geom="label", color="black") +
annotate(x=models$estimate[1], y=0.7, label=coef_1,geom="label", color="black")
}

####Two Models No LABEL####
plot_generate_2_nolabel <- function(model_x, model_y, name_x, name_y, plot_title, xlim) {

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove inter
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove inter
  models <- rbind(name_x_df, name_y_df)

#plot
plot <- dwplot(models,

```

```

    vline = geom_vline(
      xintercept = 0,
      linetype= "dashed",
      color = "black"),
    dot_args = list(size=5, shape=c(15,16)),
    whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_long_collapse2 = "")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[2], models$model[1]),
  values = list("black", "black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[2], models$model[1]),
  values=list(15,16)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:16))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
      axis.text.x = element_text(size = 12),
      axis.text.y = element_text(size = 12),
      axis.title.x = element_text(size=12),
      legend.title = element_text(size=11, face="bold"),
      legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)

plot + annotate(x=models$estimate[2], y=1.3, label=coef_2,geom="label", color="black") +
annotate(x=models$estimate[1], y=0.7, label=coef_1,geom="label", color="black")
}

plot_generate_2_w3 <- function(model_x, model_y, name_x, name_y, plot_title, xlim) {

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove intercept
  models <- rbind(name_x_df, name_y_df)

  #plot

```

```

plot <- dwplot(models,
  vline = geom_vline(
    xintercept = 0,
    linetype= "dashed",
    color = "black"),
  dot_args = list(size=5, shape=c(15,16)),
  whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_long_collapse2 = "Durability of Intention-To-Treat Effect
of Vicarious Contact")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[2], models$model[1]),
  values = list("black", "black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[2], models$model[1]),
  values=list(15,16)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:16))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
  axis.text.x = element_text(size = 12),
  axis.text.y = element_text(size = 12),
  axis.title.x = element_text(size=12),
  legend.title = element_text(size=11, face="bold"),
  legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)

plot + annotate(x=models$estimate[2], y=1.3, label=coef_2,geom="label", color="black") +
annotate(x=models$estimate[1], y=0.7, label=coef_1,geom="label", color="black")
}

#short films
plot_generate_2_short <- function(model_x, model_y, name_x, name_y, plot_title, xlim) {

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove inter
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove inter
  models <- rbind(name_x_df, name_y_df)
}

```

```

#plot
plot <- dwplot(models,
  vline = geom_vline(
    xintercept = 0,
    linetype= "dashed",
    color = "black"),
  dot_args = list(size=5, shape=c(15,16)),
  whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_short_collapse = "Short Videos vs.
                    Empty Control")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[2], models$model[1]),
  values = list("black", "black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[2], models$model[1]),
  values=list(15,16)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:16))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
  axis.text.x = element_text(size = 12),
  axis.text.y = element_text(size = 12),
  axis.title.x = element_text(size=12),
  legend.title = element_text(size=11, face="bold"),
  legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)

plot + annotate(x=models$estimate[2], y=1.3, label=coef_2,geom="label", color="black") +
  annotate(x=models$estimate[1], y=0.7, label=coef_1,geom="label", color="black")
}

####Three Models####
plot_generate_3 <- function(model_x, model_y, model_z, name_x, name_y, name_z, plot_title, xlim) {

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  new_model_z <- coeftest(model_z, vcov=vcovHC, type="HC1") #robust SEs for model z
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove inter
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove inter

```

```

name_z_df <- tidy(new_model_z) #create df
name_z_df <- name_z_df %>% filter(term != "(Intercept)") %>% mutate(model = #{name_z}) #remove interc
models <- rbind(name_x_df, name_y_df, name_z_df)

#plot
plot <- dwplot(models,
  vline = geom_vline(
    xintercept = 0,
    linetype= "dashed",
    color = "black"),
  dot_args = list(size=5, shape=c(15,16,17)),
  whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_long_collapse2 = "Intention-To-Treat Effect
of Vicarious Contact")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[3], models$model[2], models$model[1]),
  values = list("black", "black", "black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[3],models$model[2], models$model[1]),
  values=list(15,16, 17)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:17))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
  axis.text.x = element_text(size = 12),
  axis.text.y = element_text(size = 12),
  axis.title.x = element_text(size=12),
  legend.title = element_text(size=11, face="bold"),
  legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)
coef_3 <- format(round(c(models$estimate[3]), 3), nsmall=3)

plot + annotate(x=models$estimate[3], y=1.35, label=coef_3,geom="label", color="black")+
  annotate(x=models$estimate[2], y=0.92, label=coef_2,geom="label", color="black") +
  annotate(x=models$estimate[1], y=0.65, label=coef_1,geom="label", color="black")
}

####Three Models NO LABEL ####
plot_generate_3_nolabel <- function(model_x, model_y, model_z, name_x, name_y, name_z, plot_title, xlim)

#convert models into tidy dataframes with Robust SEs
new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x

```

```

new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
new_model_z <- coeftest(model_z, vcov=vcovHC, type="HC1") #robust SEs for model z
name_x_df <- tidy(new_model_x) #create df
name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
name_y_df <- tidy(new_model_y) #create df
name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove intercept
name_z_df <- tidy(new_model_z) #create df
name_z_df <- name_z_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_z}}) #remove intercept
models <- rbind(name_x_df, name_y_df, name_z_df)

#plot
plot <- dwplot(models,
  vline = geom_vline(
    xintercept = 0,
    linetype= "dashed",
    color = "black"),
  dot_args = list(size=5, shape=c(15,16,17)),
  whisker_args = list(size=0.7),
dodge_size = 0.8
) %>%
relabel_predictors(treat_long_collapse2 = "")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[3], models$model[2], models$model[1]),
  values = list("black", "black", "black")
)+
scale_shape_manual(
  name= "Legend",
  labels = list(models$model[3],models$model[2], models$model[1]),
  values=list(15,16, 17)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:17))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
  axis.text.x = element_text(size = 12),
  axis.text.y = element_text(size = 12),
  axis.title.x = element_text(size=12),
  legend.title = element_text(size=11, face="bold"),
  legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)
coef_3 <- format(round(c(models$estimate[3]), 3), nsmall=3)

plot + annotate(x=models$estimate[3], y=1.35, label=coef_3,geom="label", color="black")+
  annotate(x=models$estimate[2], y=0.92, label=coef_2,geom="label", color="black") +
  annotate(x=models$estimate[1], y=0.65, label=coef_1,geom="label", color="black")
}

```

####Four Models####

```
plot_generate_4 <- function(model_x, model_y, model_z, model_t, name_x, name_y, name_z, name_t, plot_title)

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  new_model_z <- coeftest(model_z, vcov=vcovHC, type="HC1") #robust SEs for model z
  new_model_t <- coeftest(model_t, vcov=vcovHC, type="HC1") #robust SEs for model t
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove intercept
  name_z_df <- tidy(new_model_z) #create df
  name_z_df <- name_z_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_z}}) #remove intercept
  name_t_df <- tidy(new_model_t) #create df
  name_t_df <- name_t_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_t}}) #remove intercept
  models <- rbind(name_x_df, name_y_df, name_z_df, name_t_df)

#plot
  plot <- dwplot(models,
    vline = geom_vline(
      xintercept = 0,
      linetype= "dashed",
      color = "black"),
    dot_args = list(size=5, shape=c(15,16,17,18)),
    whisker_args = list(size=0.7),
  dodge_size = 1
) %>%
  relabel_predictors(treat_long_collapse2 = "Intention-To-Treat Effect
    of Vicarious Contact")+
  ggtitle(plot_title) +
  xlab("Coefficient Estimate with 95% Confidence Intervals")+
  xlim(xlim)+
  scale_colour_manual(
    name = "Legend",
    labels = list(models$model[4], models$model[3], models$model[2], models$model[1]),
    values = list("black", "black", "black", "black")
  )+
  scale_shape_manual(
    name= "Legend",
    labels = list(models$model[4], models$model[3], models$model[2], models$model[1]),
    values=list(15,16, 17, 18)
  )+
  guides(color = guide_legend(override.aes=list(shape=c(15:18))))+
  theme_bw()+
  theme(plot.title = element_text(size=14, face="bold"),
    axis.text.x = element_text(size = 12),
    axis.text.y = element_text(size = 12),
    axis.title.x = element_text(size=12),
    legend.title = element_text(size=11, face="bold"),
    legend.text = element_text(size=10))
```

```

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)
coef_3 <- format(round(c(models$estimate[3]), 3), nsmall=3)
coef_4 <- format(round(c(models$estimate[4]), 3), nsmall=3)

plot +
  annotate(x=models$estimate[4], y=1.45, label=coef_4,geom="label", color="black")+
  annotate(x=models$estimate[3], y=1.2, label=coef_3,geom="label", color="black")+
  annotate(x=models$estimate[2], y=0.8, label=coef_2,geom="label", color="black")+
  annotate(x=models$estimate[1], y=0.55, label=coef_1,geom="label", color="black")
}

#### Four Models Alt####
plot_generate_4_2 <- function(model_x, model_y, model_z, model_t, name_x, name_y, name_z, name_t, plot_title)

  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  new_model_z <- coeftest(model_z, vcov=vcovHC, type="HC1") #robust SEs for model z
  new_model_t <- coeftest(model_t, vcov=vcovHC, type="HC1") #robust SEs for model t
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove intercept
  name_z_df <- tidy(new_model_z) #create df
  name_z_df <- name_z_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_z}}) #remove intercept
  name_t_df <- tidy(new_model_t) #create df
  name_t_df <- name_t_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_t}}) #remove intercept
  models <- rbind(name_x_df, name_y_df, name_z_df, name_t_df)

#plot
plot <- dwplot(models,
  vline = geom_vline(
    xintercept = 0,
    linetype= "dashed",
    color = "black"),
  dot_args = list(size=5, shape=c(15,16,17,18)),
  whisker_args = list(size=0.7),
dodge_size = 1
) %>%
relabel_predictors(treat_shortlong_collapse = "Intention-To-Treat Effect
of Vicarious Contact")+
ggtitle(plot_title) +
xlab("Coefficient Estimate with 95% Confidence Intervals")+
xlim(xlim)+
scale_colour_manual(
  name = "Legend",
  labels = list(models$model[4], models$model[3], models$model[2], models$model[1]),
  values = list("black", "black", "black", "black")
)+
scale_shape_manual(
  name= "Legend",

```

```

  labels = list(models$model[4], models$model[3],models$model[2], models$model[1]),
  values=list(15,16, 17, 18)
)+
guides(color = guide_legend(override.aes=list(shape=c(15:18))))+
theme_bw()+
theme(plot.title = element_text(size=14, face="bold"),
      axis.text.x = element_text(size = 12),
      axis.text.y = element_text(size = 12),
      axis.title.x = element_text(size=12),
      legend.title = element_text(size=11, face="bold"),
      legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)
coef_3 <- format(round(c(models$estimate[3]), 3), nsmall=3)
coef_4 <- format(round(c(models$estimate[4]), 3), nsmall=3)

plot +
  annotate(x=models$estimate[4], y=1.45, label=coef_4,geom="label", color="black")+
  annotate(x=models$estimate[3], y=1.2, label=coef_3,geom="label", color="black")+
  annotate(x=models$estimate[2], y=0.8, label=coef_2,geom="label", color="black")+
  annotate(x=models$estimate[1], y=0.55, label=coef_1,geom="label", color="black")
}

####Five Models####
plot_generate_5 <- function(model_x, model_y, model_z, model_t, model_w, name_x, name_y, name_z, name_t, name_w) {
  #convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") #robust SEs for model y
  new_model_z <- coeftest(model_z, vcov=vcovHC, type="HC1") #robust SEs for model z
  new_model_t <- coeftest(model_t, vcov=vcovHC, type="HC1") #robust SEs for model t
  new_model_w <- coeftest(model_w, vcov=vcovHC, type="HC1") #robust SEs for model t
  name_x_df <- tidy(new_model_x) #create df
  name_x_df <- name_x_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) #remove intercept
  name_y_df <- tidy(new_model_y) #create df
  name_y_df <- name_y_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) #remove intercept
  name_z_df <- tidy(new_model_z) #create df
  name_z_df <- name_z_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_z}}) #remove intercept
  name_t_df <- tidy(new_model_t) #create df
  name_t_df <- name_t_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_t}}) #remove intercept
  name_w_df <- tidy(new_model_w) #create df
  name_w_df <- name_w_df %>% filter(term != "(Intercept)") %>% mutate(model = {{name_w}}) #remove intercept
  models <- rbind(name_x_df, name_y_df, name_z_df, name_t_df, name_w_df)

#plot
plot <- dwplot(models,
  vline = geom_vline(
    xintercept = 0,
    linetype= "dashed",
    color = "black"),

```

```

    dot_args = list(size=5, shape=c(15,16,17,18,19)),
    whisker_args = list(size=0.7),
dodge_size = 1
) %>%
relabel_predictors(treat_long_collapse2 = "Intention-To-Treat Effect
                  of Vicarious Contact")+
  ggtitle(plot_title) +
  xlab("Coefficient Estimate with 95% Confidence Intervals")+
  xlim(xlim)+
  scale_colour_manual(
    name = "Legend",
    labels = list(models$model[5], models$model[4], models$model[3], models$model[2], models$model[1]),
    values = list("black", "black", "black", "black", "black")
  )+
  scale_shape_manual(
    name= "Legend",
    labels = list(models$model[5], models$model[4], models$model[3],models$model[2], models$model[1]),
    values=list(15,16, 17, 18, 19)
  )+
  guides(color = guide_legend(override.aes=list(shape=c(15:19))))+
  theme_bw()+
  theme(plot.title = element_text(size=14, face="bold"),
        axis.text.x = element_text(size = 12),
        axis.text.y = element_text(size = 12),
        axis.title.x = element_text(size=12),
        legend.title = element_text(size=11, face="bold"),
        legend.text = element_text(size=10))

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall=3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall=3)
coef_3 <- format(round(c(models$estimate[3]), 3), nsmall=3)
coef_4 <- format(round(c(models$estimate[4]), 3), nsmall=3)
coef_5 <- format(round(c(models$estimate[5]), 3), nsmall=3)

plot +
  annotate(x=models$estimate[5], y=1.48, label=coef_5,geom="label", color="black") +
  annotate(x=models$estimate[4], y=1.28, label=coef_4,geom="label", color="black")+
  annotate(x=models$estimate[3], y=1.08, label=coef_3,geom="label", color="black")+
  annotate(x=models$estimate[2], y=0.72, label=coef_2,geom="label", color="black")+
  annotate(x=models$estimate[1], y=0.52, label=coef_1,geom="label", color="black")
}

####Six Models####
plot_generate_6 <- function(model_x, model_y, model_z, model_t, model_w, model_v, name_x, name_y, name_z,
                           name_t, name_w, name_v) {
  # Convert models into tidy dataframes with Robust SEs
  new_model_x <- coeftest(model_x, vcov=vcovHC, type="HC1") # robust SEs for model x
  new_model_y <- coeftest(model_y, vcov=vcovHC, type="HC1") # robust SEs for model y
  new_model_z <- coeftest(model_z, vcov=vcovHC, type="HC1") # robust SEs for model z
  new_model_t <- coeftest(model_t, vcov=vcovHC, type="HC1") # robust SEs for model t
  new_model_w <- coeftest(model_w, vcov=vcovHC, type="HC1") # robust SEs for model w
  new_model_v <- coeftest(model_v, vcov=vcovHC, type="HC1") # robust SEs for model v
}

```

```

name_x_df <- tidy(new_model_x) %>% filter(term != "(Intercept)") %>% mutate(model = {{name_x}}) # rem
name_y_df <- tidy(new_model_y) %>% filter(term != "(Intercept)") %>% mutate(model = {{name_y}}) # rem
name_z_df <- tidy(new_model_z) %>% filter(term != "(Intercept)") %>% mutate(model = {{name_z}}) # rem
name_t_df <- tidy(new_model_t) %>% filter(term != "(Intercept)") %>% mutate(model = {{name_t}}) # rem
name_w_df <- tidy(new_model_w) %>% filter(term != "(Intercept)") %>% mutate(model = {{name_w}}) # rem
name_v_df <- tidy(new_model_v) %>% filter(term != "(Intercept)") %>% mutate(model = {{name_v}}) # rem

models <- rbind(name_x_df, name_y_df, name_z_df, name_t_df, name_w_df, name_v_df) # Combine models

# Plot
plot <- dwplot(models,
  vline = geom_vline(xintercept = 0, linetype = "dashed", color = "black"),
  dot_args = list(size = 5, shape = c(15, 16, 17, 18, 19, 20)),
  whisker_args = list(size = 0.7),
  dodge_size = 1
) %>%
  relabel_predictors(treat_long_collapse2 = "Intention-To-Treat Effect
                    of Vicarious Contact") +
  ggtitle(plot_title) +
  xlab("Coefficient Estimate with 95% Confidence Intervals") +
  xlim(xlim) +
  scale_colour_manual(
    name = "Legend",
    labels = list(models$model[6], models$model[5], models$model[4], models$model[3], models$model[2], models$model[1]),
    values = list("black", "black", "black", "black", "black", "black")
  ) +
  scale_shape_manual(
    name = "Legend",
    labels = list(models$model[6], models$model[5], models$model[4], models$model[3], models$model[2], models$model[1]),
    values = list(15, 16, 17, 18, 19, 20)
  ) +
  guides(color = guide_legend(override.aes = list(shape = c(15:20)))) +
  theme_bw() +
  theme(
    plot.title = element_text(size = 14, face = "bold"),
    axis.text.x = element_text(size = 12),
    axis.text.y = element_text(size = 11),
    axis.title.x = element_text(size = 12),
    legend.title = element_text(size = 11, face = "bold"),
    legend.text = element_text(size = 10)
  )

coef_1 <- format(round(c(models$estimate[1]), 3), nsmall = 3)
coef_2 <- format(round(c(models$estimate[2]), 3), nsmall = 3)
coef_3 <- format(round(c(models$estimate[3]), 3), nsmall = 3)
coef_4 <- format(round(c(models$estimate[4]), 3), nsmall = 3)
coef_5 <- format(round(c(models$estimate[5]), 3), nsmall = 3)
coef_6 <- format(round(c(models$estimate[6]), 3), nsmall = 3)

plot +
  annotate(x = models$estimate[6], y = 1.48, label = coef_6, geom = "label", color = "black") +
  annotate(x = models$estimate[5], y = 1.31, label = coef_5, geom = "label", color = "black") +
  annotate(x = models$estimate[4], y = 1.15, label = coef_4, geom = "label", color = "black") +

```

```

    annotate(x = models$estimate[3], y = 0.86, label = coef_3, geom = "label", color = "black") +
    annotate(x = models$estimate[2], y = 0.70, label = coef_2, geom = "label", color = "black") +
    annotate(x = models$estimate[1], y = 0.53, label = coef_1, geom = "label", color = "black")
  }

####Seven Models####
plot_generate_7 <- function(models_list, names_list, plot_title, xlim) {

  models <- lapply(models_list, function(model) {
    coeftest(model, vcov = vcovHC, type = "HC1") %>%
      tidy() %>%
      filter(term != "(Intercept)")
  })

  names_df <- lapply(names_list, function(name) {
    data.frame(model = rep(name, nrow(models[[1]])))
  })

  models <- Map(cbind, models, names_df)

  models <- do.call(rbind, models)

  plot <- dwplot(models,
    vline = geom_vline(
      xintercept = 0,
      linetype = "dashed",
      color = "black"),
    dot_args = list(size = 5),
    whisker_args = list(size = 0.7),
    dodge_size = 1
  ) %>%
  relabel_predictors(`treat_long_collapse2` = "Long Video vs. Placebo") +
  ggtitle(plot_title) +
  xlab("Coefficient Estimate with 95% Confidence Intervals") +
  xlim(xlim) +
  scale_colour_brewer(palette = "Dark2", name = "Model") +
  scale_shape_manual(values = rep(16, length(names_list))) +
  guides(color = rev(guide_legend(override.aes = list(shape = 16)))) +
  theme_minimal() +
  theme(
    plot.title = element_text(size = 14, face = "bold"),
    axis.text.x = element_text(size = 12),
    axis.text.y = element_text(size = 12),
    axis.title.x = element_text(size = 12),
    legend.title = element_text(size = 11, face = "bold"),
    legend.text = element_text(size = 10)
  )
  plot
}

```

```

#### Seven Models Fix ####
plot_generate_7b <- function(models_list, names_list, plot_title, x_limits) {
  library(broom)
  library(sandwich)
  library(dotwhisker)
  library(dplyr)
  library(ggplot2)

  models <- lapply(models_list, function(model) {
    message("Tidying model")
    coeftest(model, vcov = vcovHC, type = "HC1") %>%
      tidy() %>%
      filter(term != "(Intercept)")
  })

  message("Tidied all models")

  # Make sure all models have the same number of terms
  term_counts <- sapply(models, nrow)
  if(length(unique(term_counts)) != 1) {
    stop("All models must have the same number of coefficients to bind correctly.")
  }

  names_df <- mapply(function(name, model_df) {
    data.frame(model = rep(name, nrow(model_df)))
  }, names_list, models, SIMPLIFY = FALSE)

  models <- Map(cbind, models, names_df)
  models_df <- do.call(rbind, models)

  message("Creating dwplot")

  p <- tryCatch({
    dwplot(models_df,
           vline = geom_vline(xintercept = 0, linetype = "dashed", color = "black"),
           dot_args = list(size = 5),
           whisker_args = list(size = 0.7),
           dodge_size = 1
    )
  }, error = function(e) {
    stop("dwplot failed: ", e$message)
  })

  message("After dwplot")
  print(class(p))

  p <- tryCatch({
    relabel_predictors(p, treat_long_collapse2 = "Long Video vs. Placebo")
  }, error = function(e) {
    stop("relabel_predictors failed: ", e$message)
  })
}

```

```

message("After relabel_predictors")
print(class(p))

# Ensure x_limits is numeric
if (!is.numeric(x_limits) || length(x_limits) != 2) {
  stop("x_limits must be a numeric vector of length 2.")
}

# Add aesthetics and return
p <- p +
  ggtitle(plot_title) +
  xlab("Coefficient Estimate with 95% Confidence Intervals") +
  ggplot2::xlim(x_limits) +
  scale_colour_brewer(palette = "Dark2", name = "Model") +
  scale_shape_manual(values = rep(16, length(names_list))) +
  guides(color = guide_legend(override.aes = list(shape = 16))) +
  theme_minimal() +
  theme(
    plot.title = element_text(size = 14, face = "bold"),
    axis.text.x = element_text(size = 12),
    axis.text.y = element_text(size = 12),
    axis.title.x = element_text(size = 12),
    legend.title = element_text(size = 11, face = "bold"),
    legend.text = element_text(size = 10)
  )

message("Final plot built successfully.")
return(p)
}

```

Create Analysis + Plotting Functions: CATEs

```

####Create CATE DF####
get_cate <- function(model_x, name_1, name_2){
  model <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model_x
  model_df <- tidy(model) #create df
  model_df <- model_df %>% #remove intercept
    filter(term != "(Intercept)")

  #get estimate (Beta 1 + Beta 3)
  estimate = model_df$estimate[1] + model_df$estimate[3]

  #get standard errors using vcov matrix
  vc <- vcovHC(model_x, type="HC1")
  varb1 <- vc[2, 2]
  varb3 <- vc[4, 4]
  covb1b3 <- vc[2, 4]
  se <- sqrt(varb1+varb3+2*covb1b3)

  #get degrees of freedom
  df_res <- model_x$df.residual

```

```

#insert values df
model_df <- model_df %>%
  add_row(term={{name_2}},
          estimate = estimate,
          std.error = se,
          statistic = estimate/se, #t stat
          p.value = 2*pt(abs(statistic), df_res , lower.tail=F)
  ) %>%
  slice(1,3,4) %>% #reorder variables
  mutate(term = c({{name_1}}, "Interaction", {{name_2}}) #rename terms
  )
}

#no interaction
get_cate_2 <- function(model_x, name_1, name_2){
  model <- coeftest(model_x, vcov=vcovHC, type="HC1") #robust SEs for model_x
  model_df <- tidy(model) #create df
  model_df <- model_df %>% #remove intercept
    filter(term != "(Intercept)")

  #get estimate (Beta 1 + Beta 3)
  estimate = model_df$estimate[1]+ model_df$estimate[3]

  #get standard errors using vcov matrix
  vc <- vcovHC(model_x, type="HC1")
  varb1 <- vc[2, 2]
  varb3 <- vc[4, 4]
  covb1b3 <- vc[2, 4]
  se <- sqrt(varb1+varb3+2*covb1b3)

  #get degrees of freedom
  df_res <- model_x$df.residual

  #insert values df
  model_df <- model_df %>%
    add_row(term={{name_2}},
            estimate = estimate,
            std.error = se,
            statistic = estimate/se, #t stat
            p.value = 2*pt(abs(statistic), df_res , lower.tail=F)
    ) %>%
    slice(1,4) %>% #reorder variables
    mutate(term = c({{name_1}}, {{name_2}}) #rename terms
    )
}

get_cate_covars <- function(model_x, name_1, name_2, covariates = NULL) {
  model <- coeftest(model_x, vcov = vcovHC, type = "HC1") # robust SEs
  model_df <- tidy(model) # create df
  model_df <- model_df %>%

```

```

filter(!term %in% c("(Intercept)", covars))

# Calculate estimate and SE for interaction term
estimate <- model_df$estimate[1] + model_df$estimate[3]
vc <- vcovHC(model_x, type = "HC1")
varb1 <- vc[2, 2]
varb3 <- vc[4, 4]
covb1b3 <- vc[2, 4]
se <- sqrt(varb1 + varb3 + 2 * covb1b3)
df_res <- model_x$df.residual

# Create the final data frame
model_df <- model_df %>%
  add_row(
    term = {{name_2}},
    estimate = estimate,
    std.error = se,
    statistic = estimate / se,
    p.value = 2 * pt(abs(estimate / se), df_res, lower.tail = FALSE)
  ) %>%
  slice(1, 3, 4) %>%
  mutate(term = c({name_1}, "Interaction", {{name_2}}))
return(model_df)
}

####Plot CATE####

plot_cate <- function(cate_df, plot_title, xlim){

  #name df
  df <- cate_df %>%
    filter(term != "Interaction")

  #plot
  plot <- dwplot(df,
    vline = geom_vline(
      xintercept = 0,
      linetype = "dashed",
      color = "black"),
    dot_args = list(size=5, color="black"),
    whisker_args = list(size=0.7, color="black"),
    dodge_size = 1) +
  ggtitle(plot_title)+
  xlab("Coefficient Estimate with 95% Confidence Intervals")+
  xlim(xlim)+
  theme_bw() +
  theme(plot.title = element_text(size=14, face="bold"),
    axis.text.x = element_text(size = 12),
    axis.text.y = element_text(size = 12),
    axis.title.x = element_text(size=12),
    legend.title = element_text(size=11, face="bold"),
    legend.text = element_text(size=10))
}

```

```

#create HTE label

HTE_estimate <- format(round(c(cate_df$estimate[2]), 3), nsmall=3)
HTE_pvalue <- format(round(c(cate_df$p.value[2]), 3), nsmall=3)
HTE_label <- paste0("HTE: beta=", HTE_estimate, ", ",
                    "p.value=", HTE_pvalue)

plot +
  annotate(geom = "label", label = HTE_label, x=0.3, y = 0.7, size = 4)
}

plot_cate2 <- function(cate_df, plot_title, xlim){

  # Extract estimate and p-value for HTE label
  HTE_estimate <- format(round(c(cate_df$estimate[2]), 3), nsmall=3)
  HTE_pvalue <- format(round(c(cate_df$p.value[2]), 3), nsmall=3)
  HTE_label <- paste0("HTE: beta=", HTE_estimate, ", p.value=", HTE_pvalue)

  # Name df and plot
  df <- cate_df %>%
    filter(term != "Interaction")

  plot <- dwplot(df,
    vline = geom_vline(
      xintercept = 0,
      linetype= "dashed",
      color = "black"),
    dot_args = list(size=5, color="black"),
    whisker_args = list(size=0.7, color="black"),
    dodge_size = 1) +
  ggtitle(plot_title)+
  xlab("Coefficient Estimate with 95% Confidence Intervals")+
  xlim(xlim)+
  theme_bw() +
  theme(plot.title = element_text(size=14, face="bold"),
    axis.text.x = element_text(size = 12),
    axis.text.y = element_text(size = 12),
    axis.title.x = element_text(size=12),
    legend.title = element_text(size=11, face="bold"),
    legend.text = element_text(size=10))

  # Add HTE label to the plot
  plot <- plot +
    annotate(geom = "label", label = HTE_label, x = 0.3, y = 0.7, size = 4)

  # Return the plot and the label (HTE_label) for later use
  return(list(plot = plot, label = HTE_label))
}

```

Regression Tables Function

#Table functions take lm_robust models as input (robust standard errors come with the model)

One Model####

```
get_table_1 <- function(model, table_title, model_name){
  texreg(
    model,
    custom.model.names = model_name,
    caption = table_title,
    caption.above = T,
    omit.coef = "(Intercept)",
    include.ci=F,
    fontsize = "large",
    float.pos = "H",
    threparttable = T,
    custom.note = "\\item %stars. \\ \\ Robust standard errors are used."
  )
}
```

Two Models

```
get_table_2 <- function(model1, model2, table_title, model1_name, model2_name){

  models <- list(model1, model2)

  texreg(
    models,
    custom.model.names = c(model1_name, model2_name),
    caption = table_title,
    caption.above = T,
    omit.coef = "(Intercept)",
    include.ci=F,
    fontsize = "large",
    float.pos = "H",
    threparttable = T,
    custom.note = "\\item %stars. \\ \\ Robust standard errors are used."
  )
}
```

Three Models

```
get_table_3 <- function(model1, model2, model3, table_title, model1_name, model2_name, model3_name){

  models <- list(model1, model2, model3)

  texreg(
    models,
    custom.model.names = c(model1_name, model2_name, model3_name),
    caption = table_title,
    caption.above = T,
    omit.coef = "(Intercept)",
    include.ci=F,
    fontsize = "large",
```

```

float.pos = "H",
threeparttable = T,
custom.note = "\\item %stars. \\ \\ Robust standard errors are used."
)
}

####Four Models####
get_table_4 <- function(model1, model2, model3, model4, table_title, model1_name, model2_name, model3_name, model4_name) {
  models <- list(model1, model2, model3, model4)

  texreg(
    models,
    custom.model.names = c(model1_name, model2_name, model3_name, model4_name),
    caption = table_title,
    caption.above = T,
    omit.coef = "(Intercept)",
    include.ci=F,
    fontsize = "large",
    float.pos = "H",
    threeparttable = T,
    custom.note = "\\item %stars. \\ \\ Robust standard errors are used."
  )
}

```

Model Summary Lines for Latex

```

#Regular

latex_summary <- function(model) {
  # Compute robust standard errors (HC1)
  robust_se <- sqrt(diag(vcovHC(model, type = "HC1")))

  # Include the coefficient estimate
  coef_est <- coef(model)[-1]

  # Construct robust confidence intervals
  ci_str <- paste0(" 95\\% CI ", format(round(coef_est - 1.96 * robust_se, 3), nsmall = 3), " to ", format(round(coef_est + 1.96 * robust_se, 3), nsmall = 3))

  # Calculate p-value using robust standard errors
  robust_p_value <- 2 * (1 - pnorm(abs(coef_est) / robust_se))
  p_value_str <- format(round(robust_p_value, 3), nsmall = 3)

  # Get the number of observations
  n_obs <- length(model$model[, 1])
  n_obs_str <- paste0("$N$ = ", n_obs)

  latex_line <- paste("$\beta$ =", format(round(coef_est, 3), nsmall = 3), ci_str, "$P$ =", p_value_str)

  return(latex_line)
}

```

```

#CATE
latex_summary_cate <- function(df, model) {
  output_lines <- df %>%
    rowwise() %>%
    mutate(
      term = paste("\beta$ =", format(round(estimate, 3), nsmall = 3)),
      ci_str = paste0("95\\% CI", format(round(estimate - 1.96 * std.error, 3), nsmall = 3), " to ", fo
      p_value_str = paste0("$P$=", format(round(p.value,3), nsmall = 3))
    ) %>%
    select(term, ci_str, p_value_str) %>%
    summarise(latex_line = paste(term, ci_str, p_value_str, collapse = " "))

  # Extract the number of observations from the model object
  n_obs <- nobs(model)
  n_obs_str <- paste0("$N$=", n_obs)

  output_lines$latex_line <- paste(output_lines$latex_line, n_obs_str)

  return(output_lines$latex_line)
}

```

Analysis

Figure 1: Vicarious intergroup contact reduced affective polarization among a nationally representative sample of Americans

```

####Regression####

#placebo vs long (with IPWs)
H1.1 <- lm(aff_pol_idx~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
#summary(H1.1)
#coefest(H1.1, vcov = vcovHC, type="HC1") #Validated using Stata on 3/29/23 by RB

#placebo vs. long: outparty only (with IPWs)
H1.1_out <- lm(aff_pol_idx_outparty~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
#summary(H1.1_out)
#coefest(H1.1_out, vcov = vcovHC, type="HC1")

#summary statistics for in-text references
latex_summary(H1.1)

## [1] "\beta$ = -0.140 , 95\\% CI -0.223 to -0.058, $P$ = 0.001 , $N$ = 584"
## [2] "\beta$ = -0.140 , 95\\% CI -0.274 to -0.007, $P$ = 0.039 , $N$ = 584"

latex_summary(H1.1_out)

## [1] "\beta$ = -0.163 , 95\\% CI -0.248 to -0.079, $P$ = 0.000 , $N$ = 584"
## [2] "\beta$ = -0.163 , 95\\% CI -0.297 to -0.030, $P$ = 0.017 , $N$ = 584"

####Plot####
Main_AffPol_plot <- plot_generate_2(H1.1, H1.1_out, "Affective Polarization", "Outparty Only", "", c(-0

```

```
#save to Figures folder
ggsave("Figures/Figure1.png", plot = Main_AffPol_plot, width=10, height=7)
```

Figure 2: Vicarious contact increases interest but not investment in depolarization activities

```
##### Regressions #####
```

```
#BA newsletter click
H1.2a_click <- lm(BA_newsletter_clicked~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
#summary(H1.2a_click)
#coeftest(H1.2a_click, vcov = vcovHC, type="HC1") #Validated using Stata on 3/29/23 by RB

latex_summary(H1.2a_click)
```

```
## [1] "$\beta$ = 0.077 , 95%% CI 0.039 to 0.114, $P$ = 0.000 , $N$ = 509"
## [2] "$\beta$ = 0.077 , 95%% CI 0.005 to 0.148, $P$ = 0.035 , $N$ = 509"
```

```
#donations
H1.2b <- lm(donate_any~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
#summary(H1.2b)
#coeftest(H1.2b, vcov = vcovHC, type="HC1") #Validated using Stata on 3/29/23 by RB

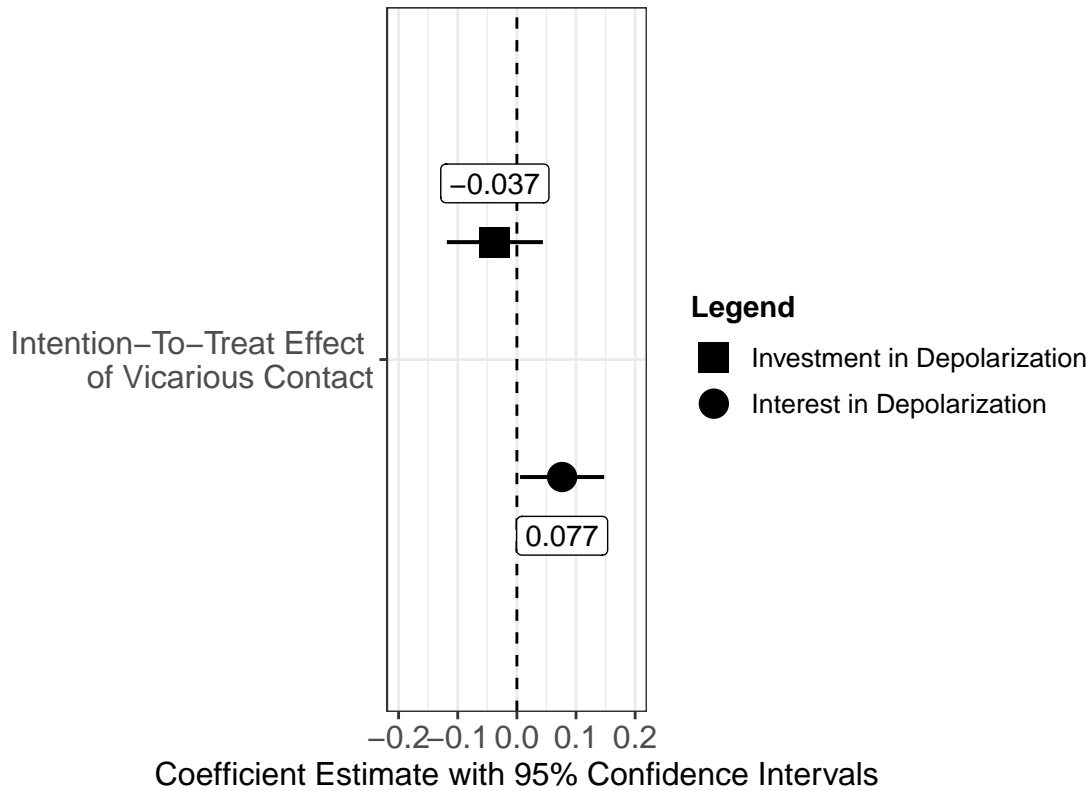
latex_summary(H1.2b)
```

```
## [1] "$\beta$ = -0.037 , 95%% CI -0.097 to 0.023, $P$ = 0.224 , $N$ = 583"
## [2] "$\beta$ = -0.037 , 95%% CI -0.118 to 0.044, $P$ = 0.369 , $N$ = 583"
```

```
##### Plot #####
```

```
#investment and interest plot
behavior_plot <- plot_generate_2(H1.2a_click, H1.2b, "Interest in Depolarization", "Investment in Depolarization")

#show
print(behavior_plot)
```



```
#save to figures folder
ggsave("Figures/Figure2.png", plot = behavior_plot, width=10, height=7)
```

Figure 3: Vicarious contact increased optimism and strengthened belief in the efficacy of dialogue

```
#### Regression ####

#belief in possibility of non-violent democratic change
Y1.1 <- lm(nonviol_change_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

#belief in efficacy of dialogue
Y1.4 <- lm(dialogue_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

#optimism about restoring civility
Y2.1 <- lm(optimism_civil_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

#optimism about survival of democratic institutions
Y2.2 <- lm(optimism_survive_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

latex_summary(Y1.1)

## [1] "$\beta$ = 0.176 , 95%% CI 0.025 to 0.327, $P$ = 0.022 , $N$ = 583"
## [2] "$\beta$ = 0.176 , 95%% CI -0.055 to 0.407, $P$ = 0.135 , $N$ = 583"

latex_summary(Y1.4)

## [1] "$\beta$ = 0.457 , 95%% CI 0.319 to 0.596, $P$ = 0.000 , $N$ = 528"
## [2] "$\beta$ = 0.457 , 95%% CI 0.249 to 0.665, $P$ = 0.000 , $N$ = 528"
```

```
latex_summary(Y2.1)
```

```
## [1] "$\beta$ = 0.431 , 95\% CI 0.301 to 0.561, $P$ = 0.000 , $N$ = 583"  
## [2] "$\beta$ = 0.431 , 95\% CI 0.234 to 0.628, $P$ = 0.000 , $N$ = 583"
```

```
latex_summary(Y2.2)
```

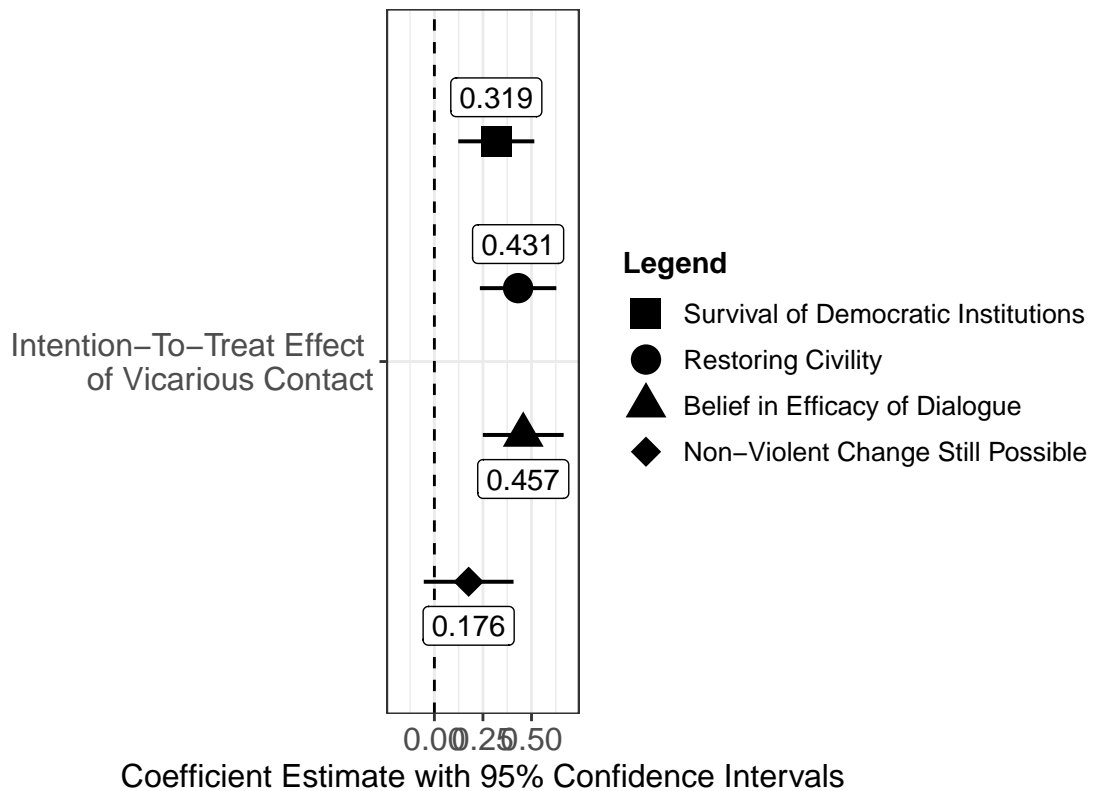
```
## [1] "$\beta$ = 0.319 , 95\% CI 0.192 to 0.446, $P$ = 0.000 , $N$ = 583"  
## [2] "$\beta$ = 0.319 , 95\% CI 0.123 to 0.515, $P$ = 0.001 , $N$ = 583"
```

```
#### Plot ####
```

```
#New plot, created 11/26 for paper
```

```
optimism_plot_PAP <- plot_generate_4(Y1.1, Y1.4, Y2.1, Y2.2, "Non-Violent Change Still Possible", "Belief in Efficacy of Dialogue", "Restoring Civility", "Survival of Democratic Institutions")
```

```
print(optimism_plot_PAP)
```



```
#save
```

```
ggsave("Figures/Figure3.png", plot = optimism_plot_PAP, width=10, height=7)
```

Figure 4: Vicarious contact does not affect support for anti-democratic actions

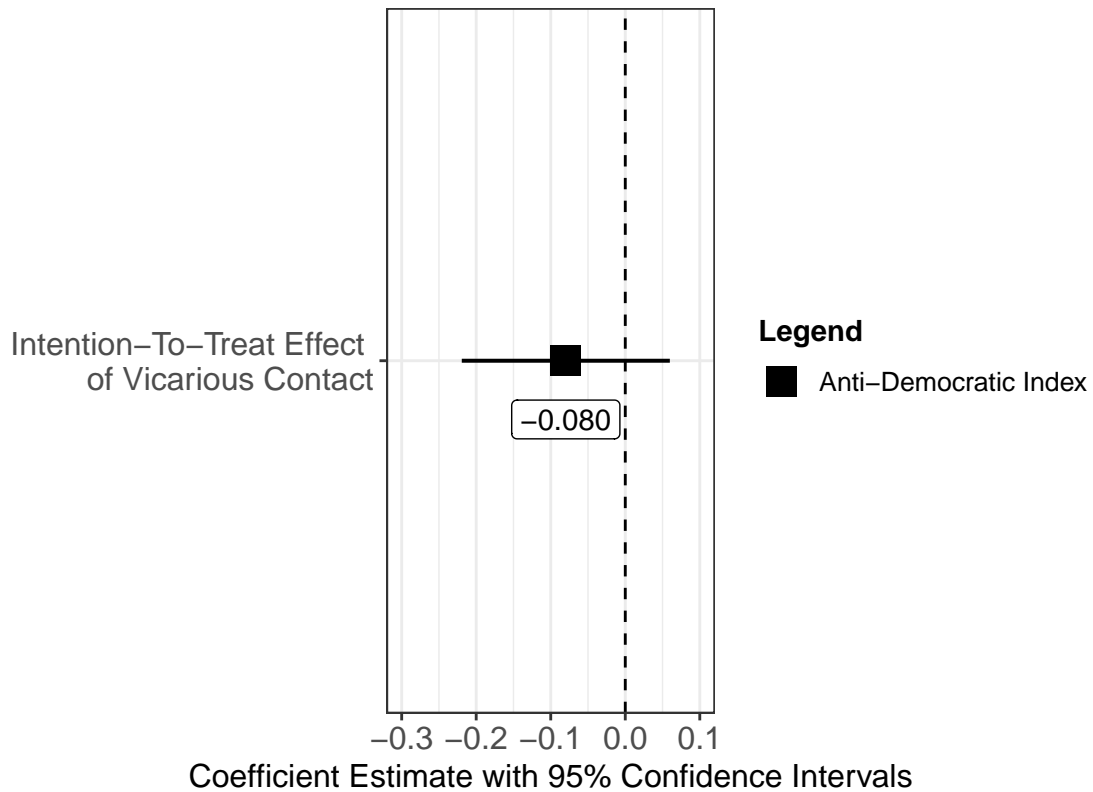
```
####Regression####
```

```
H2.1 <- lm(antidem_idx~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
```

```
latex_summary(H2.1)
```

```
## [1] "$\beta$ = -0.080 , 95\% CI -0.167 to 0.007, $P$ = 0.071 , $N$ = 583"  
## [2] "$\beta$ = -0.080 , 95\% CI -0.219 to 0.060, $P$ = 0.263 , $N$ = 583"
```

```
Antidem_main_plot <- plot_generate_1(H2.1, "Anti-Democratic Index", "", c(-.3, .1))
#check
print(Antidem_main_plot)
```



```
#save plot
ggsave("Figures/Figure4.png", plot = Antidem_main_plot, width=10, height=7)
```

Figure 5: Vicarious contact reduced affective polarization primarily among Democrats

```
####Regressions####
HTE1.1 <- lm(aff_pol_idx~treat_long_collapse2*partyID, final_drops, weights = ipw_matched_w2_noimp)
#get df for cate
HTE1.1_df <- get_cate(HTE1.1, "Democrats", "Republicans")
head(HTE1.1_df)
```

```
## # A tibble: 3 x 5
##   term      estimate std.error statistic p.value
##   <chr>      <dbl>    <dbl>    <dbl>  <dbl>
## 1 Democrats -0.191    0.0958   -1.99   0.0469
## 2 Interaction  0.121    0.135     0.899  0.369
## 3 Republicans -0.0698  0.0947   -0.737  0.461
```

```
summary(HTE1.1)
```

```
##
```

```

## Call:
## lm(formula = aff_pol_idx ~ treat_long_collapse2 * partyID, data = final_drops,
##     weights = ipw_matched_w2_noimp)
##
## Weighted Residuals:
##      Min       1Q   Median       3Q      Max
## -3.8174 -0.5520 -0.0236  0.6110  2.9313
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.13432   0.05095   2.636  0.00860 **
## treat_long_collapse2 -0.19083   0.07004  -2.725  0.00663 **
## partyID          -0.13549   0.07876  -1.720  0.08591 .
## treat_long_collapse2:partyID  0.12107   0.10794   1.122  0.26249
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.849 on 580 degrees of freedom
## (1989 observations deleted due to missingness)
## Multiple R-squared:  0.01682,    Adjusted R-squared:  0.01174
## F-statistic: 3.308 on 3 and 580 DF,  p-value: 0.01991

```

```

#stats table
xtable::xtable(HTE1.1_df, "CATE Statistics: Affective Polarization")

```

```

## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun  8 00:20:30 2025
## \begin{table}[ht]
## \centering
## \begin{tabular}{rlrrrr}
## \hline
## & term & estimate & std.error & statistic & p.value \\
## \hline
## 1 & Democrats & -0.19 & 0.10 & -1.99 & 0.05 \\
## 2 & Interaction & 0.12 & 0.13 & 0.90 & 0.37 \\
## 3 & Republicans & -0.07 & 0.09 & -0.74 & 0.46 \\
## \hline
## \end{tabular}
## \caption{CATE Statistics: Affective Polarization}
## \end{table}

```

```

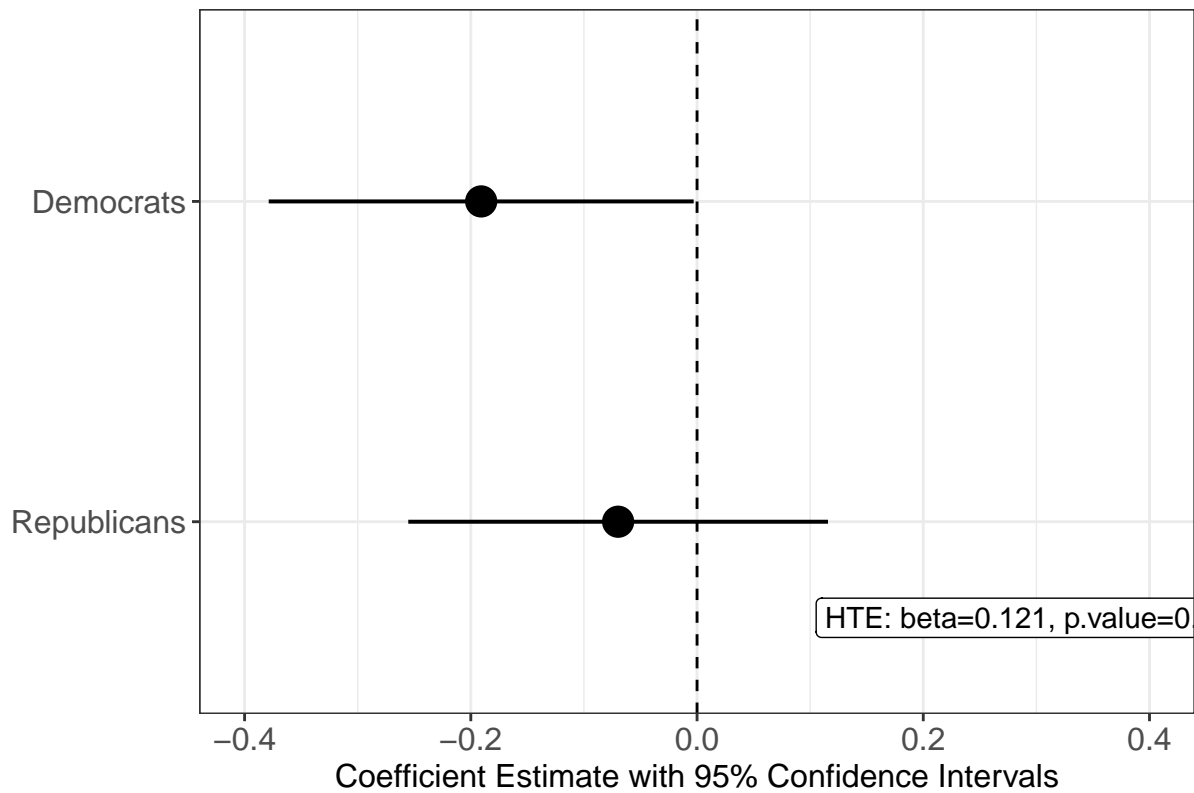
#plot
AffPol_CATE_partyID <- plot_cate(HTE1.1_df, "", c(-0.4, 0.4))

```

```

#check
print(AffPol_CATE_partyID)

```



```
#save plot
ggsave("Figures/Figure5.png", plot = AffPol_CATE_partyID, width=10, height=7)
```

Figure 6

```
####Regression####
#placebo vs long (with IPWs)
R3.1 <- lm(aff_pol_idx_w3~treat_long_collapse2, final_drops, weights=ipw_matched_w3_noimp)

#placebo vs. long: outparty only (with IPWs)
R3.1_out <- lm(aff_pol_idx_outparty_w3~treat_long_collapse2, final_drops, weights=ipw_matched_w3_noimp)

latex_summary(R3.1)

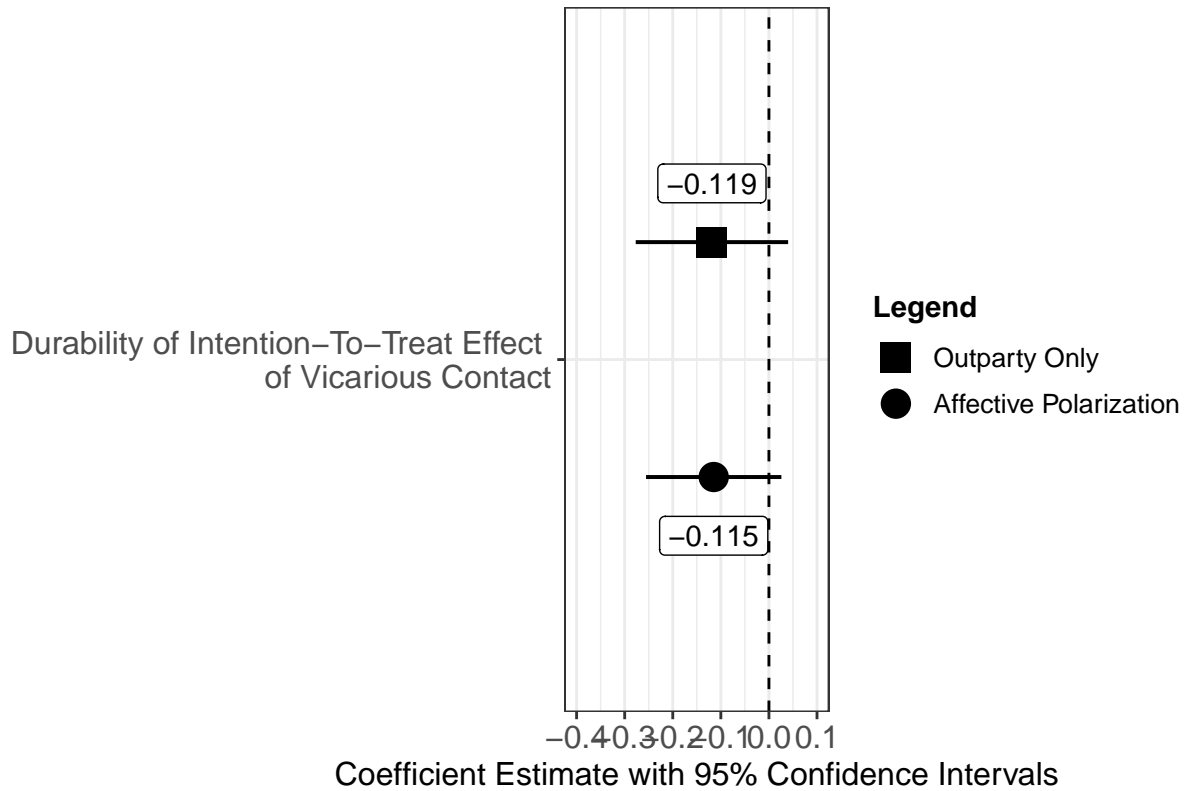
## [1] "$\beta$ = -0.115 , 95%% CI -0.206 to -0.023, $P$ = 0.014 , $N$ = 506"
## [2] "$\beta$ = -0.115 , 95%% CI -0.256 to 0.026, $P$ = 0.110 , $N$ = 506"

latex_summary(R3.1_out)

## [1] "$\beta$ = -0.119 , 95%% CI -0.225 to -0.012, $P$ = 0.029 , $N$ = 506"
## [2] "$\beta$ = -0.119 , 95%% CI -0.277 to 0.040, $P$ = 0.143 , $N$ = 506"

####Plot####
W3_AffPol_plot <- plot_generate_2_w3(R3.1, R3.1_out, "Affective Polarization", "Outparty Only", "", c(-

#check
print(W3_AffPol_plot)
```



```
#save
ggsave("Figures/Figure6.png", plot = W3_AffPol_plot, width=10, height=7)
```

Supplementary Information Tables and Figures

Descriptive statistics

```
demos <- final_drops %>%
  group_by(video_treatment) %>%
  summarise(N = length(video_treatment),
            mean_age = mean(age),
            pct_college = (sum(educ_dum)/N)*100, #4-year or more=1
            pct_female = (sum(sex)/N)*100, #male is 0
            pct_republican = (sum(partyID)/N)*100,
            pct_child = sum(child/N, na.rm = T)*100, #child
            pct_white = sum(white/N, na.rm = T)*100,
            pct_christian = sum(christian/N, na.rm = T)*100
  )

demos_2 <- final_drops %>%
  summarise(
    mean_age = mean(age),
    pct_college = sum(educ_dum/2573)*100, #4-year or more=1
    pct_female = sum(sex/2573)*100, #male is 0
    pct_republican = sum(partyID/2573)*100,
    pct_child = sum(child/2573, na.rm = T)*100, #child
    pct_white = sum(white/2573, na.rm = T)*100,
```

```

        pct_christian = sum(christian/2573, na.rm = T)*100
    ) %>%
    mutate(
      video_treatment = "Total",
      N = 2573) %>%
    select(video_treatment, N, mean_age, pct_college, pct_female, pct_republican, pct_child, pct_white, p

demos <- rbind(demos, demos_2)

####Means and SDs####

#create new variables
descriptives <- final_drops %>%
  mutate(
    Republican = if_else(partyID == 1,1,0),
    Democrat = if_else(partyID == 0,1,0),
    Black = if_else(race_2 == 1, 1,0),
    Hispanic = if_else(race_2 == 2, 1,0),
    Asian = if_else(race_2 == 4, 1,0),
    Male = if_else(sex == 0, 1, 0),
    Female = if_else(sex==1,1,0)
  )

# List of variables
variable_list <- list(
  descriptives$Republican,
  descriptives$Democrat,
  descriptives$age,
  descriptives$Male,
  descriptives$Female,
  descriptives$white,
  descriptives$Black,
  descriptives$Hispanic,
  descriptives$Asian,
  descriptives$educ_dum
)

# List of variable names
variable_names <- c(
  "Republican", "Democrat", "Age", "Male", "Female",
  "White", "Black", "Hispanic", "Asian", "College"
)

# Function to calculate descriptive statistics
calculate_stats <- function(variable_name, variable) {
  n <- ifelse(variable_name == "Age", sum(!is.na(variable)), sum(variable))
  mean_val <- mean(variable)
  sd_val <- sd(variable)
  return(c(n, format(mean_val, digits = 2), format(sd_val, digits = 2)))
}

# Calculate statistics for each variable
stats_list <- mapply(calculate_stats, variable_names, variable_list, SIMPLIFY = FALSE)

```

```

# Convert the list of statistics to a matrix and add column names
stats_matrix <- do.call(rbind, stats_list)
col_names <- c("N", "Mean", "SD")
rownames(stats_matrix) <- variable_names
colnames(stats_matrix) <- col_names

# Create a data frame for the results
stats_df <- as.data.frame(stats_matrix, stringsAsFactors = FALSE)

####Nationally representative (matched)####

d2 <- descriptives %>%
  dplyr::filter(!is.na(weight))

# List of variables
variable_list <- list(
  d2$Republican,
  d2$Democrat,
  d2$age,
  d2$Male,
  d2$Female,
  d2$white,
  d2$Black,
  d2$Hispanic,
  d2$Asian,
  d2$educ_dum
)

# Calculate statistics for each variable
stats_list2 <- mapply(calculate_stats, variable_names, variable_list, SIMPLIFY = FALSE)

# Convert the list of statistics to a matrix and add column names
stats_matrix2 <- do.call(rbind, stats_list2)
col_names <- c("N", "Mean", "SD")
rownames(stats_matrix2) <- variable_names
colnames(stats_matrix2) <- col_names

# Create a data frame for the results
stats_df2 <- as.data.frame(stats_matrix2, stringsAsFactors = FALSE)

#combine
descriptive_stats <- cbind(stats_df2, stats_df)

#Tables
xtable::xtable(descriptive_stats, caption = "Descriptive statistics")

## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun  8 00:20:31 2025
## \begin{table}[ht]
## \centering

```

```

## \begin{tabular}{rllllll}
## \hline
## & N & Mean & SD & N & Mean & SD \\
## \hline
## Republican & 812 & 0.41 & 0.49 & 1059 & 0.41 & 0.49 \\
## Democrat & 1188 & 0.59 & 0.49 & 1514 & 0.59 & 0.49 \\
## Age & 2000 & 50 & 18 & 2573 & 48 & 19 \\
## Male & 929 & 0.46 & 0.5 & 1168 & 0.45 & 0.5 \\
## Female & 1071 & 0.54 & 0.5 & 1405 & 0.55 & 0.5 \\
## White & 1418 & 0.71 & 0.45 & 1786 & 0.69 & 0.46 \\
## Black & 212 & 0.11 & 0.31 & 284 & 0.11 & 0.31 \\
## Hispanic & 189 & 0.095 & 0.29 & 254 & 0.099 & 0.3 \\
## Asian & 52 & 0.026 & 0.16 & 65 & 0.025 & 0.16 \\
## College & 679 & 0.34 & 0.47 & 866 & 0.34 & 0.47 \\
## \hline
## \end{tabular}
## \caption{Descriptive statistics}
## \end{table}

```

```
# Variable name
```

```
# List of variables
```

```

variable_list_w2 <- list(
  descriptives$aff_pol_idx,
  descriptives$aff_pol_idx_outparty,
  descriptives$BA_newsletter_clicked,
  descriptives$donate_all,
  descriptives$antidem_idx,
  descriptives$stereo_outparty_neg,
  descriptives$stereo_outparty_pos,
  descriptives$mass_abortion_diff,
  descriptives$mass_marriage_diff,
  descriptives$mass_leave_diff,
  descriptives$optimism_survive,
  descriptives$optimism_pol,
  descriptives$optimism_civil,
  descriptives$dialogue
)

```

```
# List of variable names
```

```

DV_names <- c(
  "Affective Polarization", "Affective Polarization (Outparty Animus)", "BA Newsletter Clicks", "All Do",
  "Positive Outparty Stereotypes", "Negative Outparty Stereotypes", "Mass Perceptions: Abortion", "Mass

```

```
# Function to calculate descriptive statistics
```

```

calculate_DVs <- function(variable_name, variable) {
  n <- sum(!is.na(variable))
  mean_val <- mean(variable, na.rm = T)
  sd_val <- sd(variable, na.rm = T)
  return(c(n, format(mean_val, digits = 2), format(sd_val, digits = 2)))
}

```

```
# Calculate statistics for each variable
```

```
stats_list_3 <- mapply(calculate_DVs, DV_names, variable_list_w2, SIMPLIFY = FALSE)
```

```

# Convert the list of statistics to a matrix and add column names
stats_matrix_3 <- do.call(rbind, stats_list_3)
col_names <- c("N", "Mean", "SD")
rownames(stats_matrix_3) <- DV_names
colnames(stats_matrix_3) <- col_names

# Create a data frame for the results
DV_df_3 <- as.data.frame(stats_matrix_3, stringsAsFactors = FALSE)

DV_df_3 <- DV_df_3 %>%
  select("Mean", "SD", "N")

#### Nationally representative sample####
# List of variables
variable_list_w2_2 <- list(
  d2$aff_pol_idx,
  d2$aff_pol_idx_outparty,
  d2$BA_newsletter_clicked,
  d2$donate_all,
  d2$antidem_idx,
  d2$stereo_outparty_neg,
  d2$stereo_outparty_pos,
  d2$mass_abortion_diff,
  d2$mass_marriage_diff,
  d2$mass_leave_diff,
  d2$optimism_survive,
  d2$optimism_pol,
  d2$optimism_civil,
  d2$dialogue
)

# Function to calculate descriptive statistics
calculate_DVs <- function(variable_name, variable) {
  n <- sum(!is.na(variable))
  mean_val <- mean(variable, na.rm = T)
  sd_val <- sd(variable, na.rm = T)
  return(c(n, format(mean_val, digits = 2), format(sd_val, digits = 2)))
}

# Calculate statistics for each variable
stats_list_4 <- mapply(calculate_DVs, DV_names, variable_list_w2_2, SIMPLIFY = FALSE)

# Convert the list of statistics to a matrix and add column names
stats_matrix_4 <- do.call(rbind, stats_list_4)
col_names <- c("N", "Mean", "SD")
rownames(stats_matrix_4) <- DV_names
colnames(stats_matrix_4) <- col_names

# Create a data frame for the results
DV_df_4 <- as.data.frame(stats_matrix_4, stringsAsFactors = FALSE)

```

```

DV_df_4 <- DV_df_4 %>%
  select("Mean", "SD", "N")

#combine
DV_descriptives <- cbind(DV_df_4, DV_df_3)

xtable::xtable(DV_descriptives)

## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun 8 00:20:31 2025
## \begin{table}[ht]
## \centering
## \begin{tabular}{rllllll}
## \hline
## & Mean & SD & N & Mean & SD & N \\
## \hline
## Affective Polarization & 0.015 & 0.64 & 1826 & -0.0016 & 0.63 & 2105 \\
## Affective Polarization (Outparty Animus) & 0.016 & 0.65 & 1826 & -0.0015 & 0.65 & 2105 \\
## BA Newsletter Clicks & 0.088 & 0.28 & 1622 & 0.091 & 0.29 & 1827 \\
## All Donations & 14 & 33 & 1814 & 17 & 36 & 2090 \\
## Anti-Democratic Attitudes & -0.031 & 0.67 & 1819 & -4.2e-05 & 0.68 & 2094 \\
## Positive Outparty Stereotypes & 4 & 1.8 & 1816 & 3.9 & 1.8 & 2091 \\
## Negative Outparty Stereotypes & 3.2 & 2.4 & 1816 & 3.3 & 2.4 & 2091 \\
## Mass Perceptions: Abortion & 34 & 44 & 1618 & 32 & 44 & 1825 \\
## Mass Perceptions: Marriage & 31 & 42 & 1594 & 30 & 42 & 1796 \\
## Mass Perceptions: Parental Leave & 26 & 35 & 1527 & 25 & 35 & 1733 \\
## Optimism: survival of demcoratic institutions & 2 & 1.2 & 1818 & 2 & 1.2 & 2094 \\
## Optimism: overcoming polarization & 2.6 & 1.6 & 1819 & 2.6 & 1.6 & 2095 \\
## Optimism: restoring civility & 2 & 1.2 & 1819 & 2 & 1.2 & 2095 \\
## Dialogue as effective tool for change & 55 & 26 & 1676 & 55 & 26 & 1889 \\
## \hline
## \end{tabular}
## \end{table}

```

Participants by condition

```

#nationally representative (Table SI.3)
matched_sample <- final_drops %>%
  dplyr::filter(!is.na(weight))

treatment2 <- matched_sample %>%
  group_by(video_treatment) %>%
  summarise(Randomized = length(video_treatment),
            Wave2_Attritters = sum(matched_attriter_w2),
            N_Wave2 = Randomized-Wave2_Attritters,
            Wave3_Attritters = sum(matched_attriter_w3),
            N_Wave3 = Randomized-Wave3_Attritters)

xtable::xtable(treatment2, digits = 0)

## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun 8 00:20:32 2025
## \begin{table}[ht]
## \centering

```

```
## \begin{tabular}{rlrrrrr}
## \hline
## & video\_treatment & Randomized & Wave2\_Attriters & N\_Wave2 & Wave3\_Attriters & N\_Wave3 \\
## \hline
## 1 & Empty Control & 458 & 99 & 359 & 156 & 302 \\
## 2 & Placebo Control & 380 & 82 & 298 & 111 & 269 \\
## 3 & Treatment Long & 351 & 65 & 286 & 112 & 239 \\
## 4 & Treatment Short PMC & 405 & 78 & 327 & 133 & 272 \\
## 5 & Treatment Short VC & 406 & 76 & 330 & 128 & 278 \\
## \hline
## \end{tabular}
## \end{table}
```

#full sample (Table SI.4)

```
treatment <- final_drops %>%
  group_by(video_treatment) %>%
  summarise(Randomized = length(video_treatment),
            Wave2_Attriters = sum(rand_attriter),
            N_Wave2 = Randomized-Wave2_Attriters,
            Wave3_Attriters = sum(rand_attriter_w3),
            N_Wave3 = Randomized-Wave3_Attriters)
```

```
xtable::xtable(treatment, digits = 0)
```

```
## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun 8 00:20:32 2025
## \begin{table}[ht]
## \centering
## \begin{tabular}{rlrrrrr}
## \hline
## & video\_treatment & Randomized & Wave2\_Attriters & N\_Wave2 & Wave3\_Attriters & N\_Wave3 \\
## \hline
## 1 & Empty Control & 506 & 60 & 446 & 169 & 337 \\
## 2 & Placebo Control & 514 & 113 & 401 & 188 & 326 \\
## 3 & Treatment Long & 524 & 146 & 378 & 235 & 289 \\
## 4 & Treatment Short PMC & 514 & 83 & 431 & 196 & 318 \\
## 5 & Treatment Short VC & 515 & 66 & 449 & 173 & 342 \\
## \hline
## \end{tabular}
## \end{table}
```

Correlation Tables

```
#pre-registered index
index_items <- final_drops[, c("trust_diff_scale", "therm_diff_scale", "discomfort_outparty_friends_sca

#change names of index items
colnames(index_items) <- c("Trust", "FT", "Friends", "Marriage", "Neighbors", "Threat", "Negative_Par")

#confirm Cronbach's alpha is 0.74 (confirmed by LAK, 11/24/24)
alpha(index_items)
```

Number of categories should be increased in order to count frequencies.

```

##
## Reliability analysis
## Call: alpha(x = index_items)
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase   mean   sd median_r
##     0.74     0.74     0.8     0.29 2.9 0.0077 -0.0016 0.63     0.28
##
##   95% confidence boundaries
##         lower alpha upper
## Feldt     0.73 0.74 0.76
## Duhachek 0.73 0.74 0.76
##
## Reliability if an item is dropped:
##   raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
## Trust      0.72     0.72     0.75     0.30 2.5 0.0085 0.066 0.28
## FT         0.71     0.71     0.75     0.29 2.4 0.0088 0.066 0.24
## Friends    0.67     0.67     0.73     0.26 2.1 0.0099 0.053 0.28
## Marriage    0.68     0.68     0.73     0.26 2.1 0.0099 0.055 0.27
## Neighbors  0.68     0.68     0.73     0.26 2.1 0.0099 0.055 0.27
## Threat     0.71     0.71     0.78     0.29 2.5 0.0087 0.084 0.24
## Negative_Par 0.80     0.80     0.83     0.40 4.1 0.0063 0.039 0.29
##
## Item statistics
##           n raw.r std.r r.cor r.drop   mean sd
## Trust      2095 0.61 0.62 0.55 0.441 -2.8e-16 1
## FT         1976 0.64 0.65 0.59 0.481 1.9e-16 1
## Friends    2104 0.76 0.75 0.75 0.626 1.3e-15 1
## Marriage    2104 0.75 0.75 0.74 0.617 -1.9e-15 1
## Neighbors  2104 0.75 0.75 0.73 0.616 1.5e-15 1
## Threat     2103 0.63 0.63 0.52 0.463 3.7e-16 1
## Negative_Par 2098 0.26 0.25 0.04 0.026 3.6e-16 1

```

```

#outparty only
index_items_out <- final_drops[, c("trust_outparty_scale", "therm_outparty_scale", "discomfort_outparty",
#change names of index items
colnames(index_items_out) <- c("Trust (out)", "FT (out)", "Friends", "Marriage", "Neighbors", "Threat",
#confirm Cronbach's alpha is 0.77 (confirmed by LAK, 11/24/24; rounded up here)
alpha(index_items_out)

```

```
## Number of categories should be increased in order to count frequencies.
```

```

##
## Reliability analysis
## Call: alpha(x = index_items_out)
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase   mean   sd median_r
##     0.77     0.77     0.8     0.32 3.3 0.0071 -0.0015 0.65     0.28
##
##   95% confidence boundaries
##         lower alpha upper
## Feldt     0.75 0.77 0.78
## Duhachek 0.75 0.77 0.78
##

```

```
## Reliability if an item is dropped:
##      raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
## Trust (out)      0.73      0.73   0.76      0.31 2.7   0.0082 0.058 0.28
## FT (out)         0.73      0.73   0.76      0.31 2.7   0.0081 0.059 0.28
## Friends          0.70      0.70   0.73      0.28 2.4   0.0090 0.035 0.28
## Marriage          0.71      0.71   0.74      0.29 2.4   0.0089 0.038 0.28
## Neighbors        0.71      0.71   0.74      0.29 2.4   0.0089 0.038 0.28
## Threat           0.74      0.74   0.78      0.32 2.9   0.0079 0.063 0.29
## Negative_Par     0.81      0.81   0.83      0.41 4.2   0.0060 0.032 0.30
##
## Item statistics
##      n raw.r std.r r.cor r.drop      mean sd
## Trust (out) 2096 0.66 0.66 0.59 0.51 -2.4e-16 1
## FT (out)    1989 0.66 0.66 0.58 0.50 -8.4e-16 1
## Friends     2104 0.76 0.75 0.76 0.63 1.3e-15 1
## Marriage     2104 0.74 0.74 0.73 0.61 -1.9e-15 1
## Neighbors   2104 0.74 0.74 0.73 0.61 1.5e-15 1
## Threat      2103 0.62 0.62 0.51 0.46 3.7e-16 1
## Negative_Par 2098 0.33 0.33 0.12 0.11 3.6e-16 1
```

```
#regular index
aff_polidx_cor_matrix <- cor(index_items, use = "pairwise.complete.obs") # Use pairwise deletion for m

#round
aff_polidx_cor_matrix <- round(aff_polidx_cor_matrix, 3)

print(aff_polidx_cor_matrix)
```

```
##      Trust      FT Friends Marriage Neighbors Threat Negative_Par
## Trust      1.000 0.673 0.236 0.244 0.227 0.409      -0.074
## FT          0.673 1.000 0.294 0.274 0.294 0.404      -0.087
## Friends     0.236 0.294 1.000 0.738 0.735 0.268       0.043
## Marriage     0.244 0.274 0.738 1.000 0.699 0.283       0.047
## Neighbors   0.227 0.294 0.735 0.699 1.000 0.283       0.046
## Threat      0.409 0.404 0.268 0.283 0.283 1.000       0.134
## Negative_Par -0.074 -0.087 0.043 0.047 0.046 0.134       1.000
```

```
xtable::xtable(aff_polidx_cor_matrix)
```

```
## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun 8 00:20:32 2025
## \begin{table}[ht]
## \centering
## \begin{tabular}{rrrrrrrr}
## \hline
## & Trust & FT & Friends & Marriage & Neighbors & Threat & Negative\_Par \\
## \hline
## Trust & 1.00 & 0.67 & 0.24 & 0.24 & 0.23 & 0.41 & -0.07 \\
## FT & 0.67 & 1.00 & 0.29 & 0.27 & 0.29 & 0.40 & -0.09 \\
## Friends & 0.24 & 0.29 & 1.00 & 0.74 & 0.73 & 0.27 & 0.04 \\
## Marriage & 0.24 & 0.27 & 0.74 & 1.00 & 0.70 & 0.28 & 0.05 \\
## Neighbors & 0.23 & 0.29 & 0.73 & 0.70 & 1.00 & 0.28 & 0.05 \\
## Threat & 0.41 & 0.40 & 0.27 & 0.28 & 0.28 & 1.00 & 0.13 \\
## Negative\_Par & -0.07 & -0.09 & 0.04 & 0.05 & 0.05 & 0.13 & 1.00 \\
## \hline
```

```
## \end{tabular}
## \end{table}

#outparty index
aff_polidx_out_cor_matrix <- cor(index_items_out, use = "pairwise.complete.obs") # Use pairwise deletion

aff_polidx_out_cor_matrix <- round(aff_polidx_out_cor_matrix, 3)

print(aff_polidx_out_cor_matrix)
```

```
##          Trust (out) FT (out) Friends Marriage Neighbors Threat
## Trust (out)      1.000   0.574   0.299   0.298   0.283   0.443
## FT (out)         0.574   1.000   0.322   0.281   0.294   0.408
## Friends          0.299   0.322   1.000   0.738   0.735   0.268
## Marriage          0.298   0.281   0.738   1.000   0.699   0.283
## Neighbors        0.283   0.294   0.735   0.699   1.000   0.283
## Threat           0.443   0.408   0.268   0.283   0.283   1.000
## Negative_Par     0.107   0.097   0.043   0.047   0.046   0.134
##          Negative_Par
## Trust (out)      0.107
## FT (out)         0.097
## Friends          0.043
## Marriage          0.047
## Neighbors        0.046
## Threat           0.134
## Negative_Par     1.000
```

```
xtable::xtable(aff_polidx_out_cor_matrix)
```

```
## % latex table generated in R 4.1.3 by xtable 1.8-4 package
## % Sun Jun 8 00:20:32 2025
## \begin{table}[ht]
## \centering
## \begin{tabular}{rrrrrrrr}
## \hline
## & Trust (out) & FT (out) & Friends & Marriage & Neighbors & Threat & Negative\_Par \\
## \hline
## Trust (out) & 1.00 & 0.57 & 0.30 & 0.30 & 0.28 & 0.44 & 0.11 \\
## FT (out) & 0.57 & 1.00 & 0.32 & 0.28 & 0.29 & 0.41 & 0.10 \\
## Friends & 0.30 & 0.32 & 1.00 & 0.74 & 0.73 & 0.27 & 0.04 \\
## Marriage & 0.30 & 0.28 & 0.74 & 1.00 & 0.70 & 0.28 & 0.05 \\
## Neighbors & 0.28 & 0.29 & 0.73 & 0.70 & 1.00 & 0.28 & 0.05 \\
## Threat & 0.44 & 0.41 & 0.27 & 0.28 & 0.28 & 1.00 & 0.13 \\
## Negative\_Par & 0.11 & 0.10 & 0.04 & 0.05 & 0.05 & 0.13 & 1.00 \\
## \hline
## \end{tabular}
## \end{table}
```

Balance tests

```
long_placebo <- final_drops %>%
  dplyr::filter(!is.na(treat_long_collapse2)) %>%
  mutate(
    matched = if_else(!is.na(weight), 1, 0)
  )
```

```

full_model <- lm(treat_long_collapse2~partyID+age+white+Black+Asian+Hispanic+Female+educ_dum+ideology_yg)
full_model_2 <- lm(treat_all_collapse~partyID+age+white+Black+Asian+Hispanic+Female+educ_dum+ideology_yg)
full_model_3 <- lm(treat_long_collapse2~partyID+age+white+Black+Asian+Hispanic+Female+educ_dum+ideology_yg)
full_model_4 <- lm(treat_all_collapse~partyID+age+white+Black+Asian+Hispanic+Female+educ_dum+ideology_yg)

stargazer::stargazer(list(full_model_3, full_model_4), omit = "Constant", title = "Balance Test: Assignment")

##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@sp.i.cas.cz
## % Date and time: Sun, Jun 08, 2025 - 00:20:32
## \begin{table}[!htbp] \centering
## \caption{Balance Test: Assignment to Treatment as Predicted by Covariates}
## \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lcc}
## \hline
## \hline \hline \hline
## & \multicolumn{2}{c}{\textit{Dependent variable:}} & \\
## \cline{2-3}
## \hline & treat\_long\_collapse2 & treat\_all\_collapse & \\
## \hline & (1) & (2) & \\
## \hline & & & \\
## partyID &  $-\$0.022$  &  $0.033$  & \\
## & (0.044) & (0.026) & \\
## & & & \\
## age &  $0.001$  &  $0.0001$  & \\
## & (0.001) & (0.001) & \\
## & & & \\
## white &  $-\$0.019$  &  $-\$0.008$  & \\
## & (0.074) & (0.046) & \\
## & & & \\
## Black &  $0.079$  &  $0.009$  & \\
## & (0.092) & (0.056) & \\
## & & & \\
## Asian &  $0.131$  &  $-\$0.069$  & \\
## & (0.144) & (0.082) & \\
## & & & \\
## Hispanic &  $0.029$  &  $0.008$  & \\
## & (0.092) & (0.057) & \\
## & & & \\
## Female &  $-\$0.043$  &  $-\$0.030$  & \\
## & (0.037) & (0.022) & \\
## & & & \\
## educ\_dum &  $0.079^{**}$  &  $0.021$  & \\
## & (0.040) & (0.024) & \\
## & & & \\
## ideology\_yg &  $0.022$  &  $-\$0.003$  & \\
## & (0.016) & (0.010) & \\
## & & &

```

```

## \hline \[-1.8ex]
## Observations & 731 & 2,000 \\\
## R2 & 0.016 & 0.003 \\\
## Adjusted R2 & 0.003 &  $-\$0.002$  \\\
## Residual Std. Error & 0.499 (df = 721) & 0.494 (df = 1990) \\\
## F Statistic & 1.276 (df = 9; 721) & 0.572 (df = 9; 1990) \\\
## \hline
## \hline \[-1.8ex]
## \textit{Note:} & \multicolumn{2}{r}{ $\hat{*}$  $p$  $\leq$  $0.1$ ;  $\hat{**}$  $p$  $\leq$  $0.05$ ;  $\hat{***}$  $p$  $\leq$  $0.01$ } \\\
## \end{tabular}
## \end{table}

stargazer::stargazer(list(full_model, full_model_2), omit = "Constant", title = "Balance Test: Assignment

##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@
## % Date and time: Sun, Jun 08, 2025 - 00:20:32
## \begin{table}[!htbp] \centering
## \caption{Balance Test: Assignment to Treatment as Predicted by Covariates}
## \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lcc}
## \[-1.8ex]\hline
## \hline \[-1.8ex]
## & \multicolumn{2}{c}{\textit{Dependent variable:}} \\\
## \cline{2-3}
## \[-1.8ex] & treat\_long\_collapse2 & treat\_all\_collapse \\\
## \[-1.8ex] & (1) & (2) \\\
## \hline \[-1.8ex]
## partyID &  $-\$0.012$  & 0.021 \\\
## & (0.036) & (0.023) \\\
## & & \\\
## age & 0.001 & 0.0002 \\\
## & (0.001) & (0.001) \\\
## & & \\\
## white &  $-\$0.001$  &  $-\$0.029$  \\\
## & (0.062) & (0.038) \\\
## & & \\\
## Black & 0.051 &  $-\$0.024$  \\\
## & (0.076) & (0.047) \\\
## & & \\\
## Asian & 0.111 &  $-\$0.106$  \\\
## & (0.120) & (0.071) \\\
## & & \\\
## Hispanic & 0.053 &  $-\$0.020$  \\\
## & (0.076) & (0.048) \\\
## & & \\\
## Female &  $-\$0.050$  &  $-\$0.022$  \\\
## & (0.031) & (0.020) \\\
## & & \\\
## educ\_dum & 0.040 & 0.005 \\\
## & (0.033) & (0.021) \\\
## & & \\\
## ideology\_yg & 0.020 & 0.0001 \\\
## & (0.013) & (0.008) \\\
## & & \\\
## & & \\\

```

```

## \hline \[-1.8ex]
## Observations & 1,038 & 2,573 \
## R2 & 0.010 & 0.002 \
## Adjusted R2 & 0.001 & -$0.002 \
## Residual Std. Error & 0.500 (df = 1028) & 0.490 (df = 2563) \
## F Statistic & 1.140 (df = 9; 1028) & 0.570 (df = 9; 2563) \
## \hline
## \hline \[-1.8ex]
## \textit{Note:} & \multicolumn{2}{r}{*p<$0.1; **p<$0.05; ***p<$0.01} \
## \end{tabular}
## \end{table}

```

Attrition tables

```

#### Table SI.9 ####

# Function to extract OLS estimates and format results
extract_ols_results <- function(model) {
  coef_summary <- summary(model)$coefficients
  estimate <- coef_summary[2, 1]
  p_value <- coef_summary[2, 4]

  # Add stars based on p-value
  stars <- case_when(
    p_value < 0.001 ~ "***",
    p_value < 0.01 ~ "**",
    p_value < 0.05 ~ "*",
    TRUE ~ ""
  )

  # Return formatted string with estimate and stars
  sprintf("%.3f (p=%.3f)%s", estimate, p_value, stars)
}

# Run models for different conditions and waves (example)
conditions <- c("Full Film vs. Placebo", "Full Film vs. Placebo + Control", "Full Film vs. Short PMC",
models_w2 <- list(
  lm(matched_attriter_w2 ~ treat_long_collapse2, final_drops), #long vs. placebo
  lm(matched_attriter_w2 ~ treat_long_collapse1, final_drops), #long vs. placebo+control
  lm(matched_attriter_w2 ~ treat_pmclong, final_drops), #long vs. PMC
  lm(matched_attriter_w2 ~ treat_vclong, final_drops), #long vs. VC
  lm(matched_attriter_w2 ~ treat_shortlong_collapse, final_drops), #long vs. both short videos
  lm(matched_attriter_w2 ~ short_pmc, final_drops), #short pmc vs. empty control
  lm(matched_attriter_w2 ~ short_vc, final_drops), #short vc vs. empty control
  lm(matched_attriter_w2 ~ treat_short_collapse, final_drops), #short vc vs. empty control
  lm(matched_attriter_w2 ~ pmc_vs_vc, final_drops) #short vs. short
)

table(final_drops$pmc_vs_vc)

##
## 0 1
## 515 514

```

```

models_w3 <- list(
  lm(matched_attriter_w3 ~ treat_long_collapse2, final_drops), #long vs. placebo
  lm(matched_attriter_w3 ~ treat_long_collapse1, final_drops), #long vs. placebo+control
  lm(matched_attriter_w3 ~ treat_pmclong, final_drops), #long vs. PMC
  lm(matched_attriter_w3 ~ treat_vclong, final_drops), #long vs. VC
  lm(matched_attriter_w3 ~ treat_shortlong_collapse, final_drops), #long vs. both short videos
  lm(matched_attriter_w3 ~ short_pmc, final_drops), #short pmc vs. empty control
  lm(matched_attriter_w3 ~ short_vc, final_drops), #short vc vs. empty control
  lm(matched_attriter_w3 ~ treat_short_collapse, final_drops), #short vc vs. empty control
  lm(matched_attriter_w3 ~ pmc_vs_vc, final_drops) #short vs. short
)

models_w2_full <- list(
  lm(rand_attriter ~ treat_long_collapse2, final_drops), #long vs. placebo
  lm(rand_attriter ~ treat_long_collapse1, final_drops), #long vs. placebo+control
  lm(rand_attriter ~ treat_pmclong, final_drops), #long vs. PMC
  lm(rand_attriter ~ treat_vclong, final_drops), #long vs. VC
  lm(rand_attriter ~ treat_shortlong_collapse, final_drops), #long vs. both short videos
  lm(rand_attriter ~ short_pmc, final_drops), #short pmc vs. empty control
  lm(rand_attriter ~ short_vc, final_drops), #short vc vs. empty control
  lm(rand_attriter ~ treat_short_collapse, final_drops), #short vc vs. empty control
  lm(rand_attriter ~ pmc_vs_vc, final_drops) #short vs. short
)

models_w3_full <- list(
  lm(rand_attriter_w3 ~ treat_long_collapse2, final_drops), #long vs. placebo
  lm(rand_attriter_w3 ~ treat_long_collapse1, final_drops), #long vs. placebo+control
  lm(rand_attriter_w3 ~ treat_pmclong, final_drops), #long vs. PMC
  lm(rand_attriter_w3 ~ treat_vclong, final_drops), #long vs. VC
  lm(rand_attriter_w3 ~ treat_shortlong_collapse, final_drops), #long vs. both short videos
  lm(rand_attriter_w3 ~ short_pmc, final_drops), #short pmc vs. empty control
  lm(rand_attriter_w3 ~ short_vc, final_drops), #short vc vs. empty control
  lm(rand_attriter_w3 ~ treat_short_collapse, final_drops), #short vc vs. empty control
  lm(rand_attriter_w3 ~ pmc_vs_vc, final_drops) #short vs. short
)

# Create summary table
summary_table <- data.frame(
  Conditions = conditions,
  Wave2 = sapply(models_w2, extract_ols_results),
  Wave3 = sapply(models_w3, extract_ols_results),
  Wave2_FullSample = sapply(models_w2_full, extract_ols_results),
  Wave3_FullSample = sapply(models_w3_full, extract_ols_results)
)

means <- final_drops %>%
  dplyr::group_by(video_treatment) %>%
  summarize(
    n = n(),
    mean_w2 =mean(matched_attriter_w2),
    mean_w3 =mean(matched_attriter_w3),
    mean_w2_full = mean(rand_attriter),

```

```

mean_w3_full = mean(rand_attriter_w3)
)

# Print the table
print(summary_table)

##              Conditions              Wave2              Wave3
## 1      Full Film vs. Placebo      0.034 (p=0.270)  0.067 (p=0.030)*
## 2      Full Film vs. Placebo + Control 0.098 (p=0.000)*** 0.104 (p=0.000)***
## 3      Full Film vs. Short PMC      0.090 (p=0.003)**  0.073 (p=0.019)*
## 4      Full Film vs. Short VC      0.095 (p=0.002)**  0.084 (p=0.007)**
## 5      Full Film vs. Both Short Videos 0.093 (p=0.000)*** 0.078 (p=0.003)**
## 6      Short PMC vs. Empty Control  0.073 (p=0.013)*  0.068 (p=0.029)*
## 7      Short VC vs. Empty Control   0.069 (p=0.019)*  0.057 (p=0.066)
## 8      Both Short Videos vs. Empty Control 0.071 (p=0.006)** 0.062 (p=0.021)*
## 9      Short VC vs. Short PMC      0.005 (p=0.878)   0.011 (p=0.733)
##      Wave2_FullSample  Wave3_FullSample
## 1      0.059 (p=0.029)*  0.083 (p=0.007)**
## 2      0.109 (p=0.000)*** 0.098 (p=0.000)***
## 3      0.117 (p=0.000)***  0.067 (p=0.028)*
## 4      0.150 (p=0.000)*** 0.113 (p=0.000)***
## 5      0.134 (p=0.000)*** 0.090 (p=0.001)***
## 6      0.043 (p=0.049)*   0.047 (p=0.115)
## 7      0.010 (p=0.642)   0.002 (p=0.948)
## 8      0.026 (p=0.159)   0.025 (p=0.342)
## 9      0.033 (p=0.129)   0.045 (p=0.129)

# Create LaTeX table with xtable
latex_table <- xtable(
  summary_table,
  caption = "Summary of Attrition Across Conditions and Waves",
  label = "tab:attrition_summary",
  align = c("l", "l", "c", "c", "c", "c")
)

# Specify column names
colnames(summary_table) <- c("Conditions", "Wave 2 (Matched)", "Wave 3 (Matched)", "Wave 2 (Full Sample)", "Wave 3 (Full Sample)")

# Pare down to five rows (Full film vs. placebo, full film vs. placebo+control, full film vs. both short videos, both short videos vs. empty control, short VC vs. short PMC)
summary_table <- summary_table %>%
  dplyr::filter(Conditions %in% c(
    "Full Film vs. Placebo",
    "Full Film vs. Placebo + Control",
    "Full Film vs. Both Short Videos",
    "Both Short Videos vs. Empty Control",
    "Short VC vs. Short PMC"
  ))

# Print LaTeX table to file
output_file <- "Figures/SI/attrition_summary.tex"

```

```

print(
  latex_table,
  file = output_file,
  include.rownames = FALSE,
  floating = TRUE,
  sanitize.text.function = identity, # To keep formatting like stars
  booktabs = TRUE, # For cleaner table style
  hline.after = c(-1, 0, nrow(summary_table)) # Horizontal lines at the top, header, and bottom
)

cat("LaTeX file saved as:", output_file, "\n")

## LaTeX file saved as: Figures/SI/attrition_summary.tex
output_file

## [1] "Figures/SI/attrition_summary.tex"
#### Table SI.10 ####

#For this table, we manually moved the row with the count to the top and added an explanation column. W

#factor variables if needed...
final_drops <- final_drops %>%
  mutate(
    region_2 = as.factor(region_2),
    vote_2016 = as.factor(vote_2016),
    vote_2020 = as.factor(vote_2020)
  )

# Convert factor variables to dummy variables and calculate means (if necessary)
final_drops_with_dummies <- final_drops %>%
  mutate(across(c(vote_2020, vote_2016, region_2), as.factor)) %>%
  clean_names() %>% # To ensure column names are compatible
  dummy_cols(select_columns = c("vote_2020", "vote_2016", "region_2"), remove_first_dummy = F)

demos_with_dummies <- c("party_id", "ideology_yg", "age", "sex", "educ_dum", "white", "christian", "chi
  colnames(final_drops_with_dummies %>% select(starts_with("vote_2020_"), starts_w

demos <- c("party_id", "ideology_yg", "age", "sex", "educ_dum", "white", "christian", "child", "job", "n

# Function to calculate mean, difference, SMD, and counts
calculate_smd <- function(group_1, group_2) {
  # Calculate mean and standard deviation for each group
  mean_1 <- mean(group_1, na.rm = TRUE)
  mean_2 <- mean(group_2, na.rm = TRUE)
  sd_1 <- sd(group_1, na.rm = TRUE)
  sd_2 <- sd(group_2, na.rm = TRUE)

  # Calculate difference in means
  difference <- mean_1 - mean_2

```

```

# Calculate standardized mean difference (SMD)
smd <- difference / sqrt((sd_1^2 + sd_2^2) / 2)

# Calculate counts
count_1 <- sum(!is.na(group_1))
count_2 <- sum(!is.na(group_2))

# Return the results as a list
list(
  mean_1 = mean_1,
  mean_2 = mean_2,
  sd_1 = sd_1,
  sd_2 = sd_2,
  difference = difference,
  smd = smd,
  count_1 = count_1,
  count_2 = count_2
)
}

# Filter the data to exclude NA values in treat_long_collapse2
filtered_data <- final_drops_with_dummies %>%
  filter(!is.na(treat_long_collapse2))

# Apply the function to every variable in demos_with_dummies
results <- map_dfr(demos, function(var) {
  group_1 <- filtered_data %>% filter(matched_attriter_w2 == FALSE) %>% pull(!!sym(var))
  group_2 <- filtered_data %>% filter(matched_attriter_w2 == TRUE) %>% pull(!!sym(var))

  smd_result <- calculate_smd(group_1, group_2)

  tibble(
    Variable = var,
    Mean_Non_Attriter = smd_result$mean_1,
    Mean_Attriter = smd_result$mean_2,
    Difference = smd_result$difference,
    SMD = smd_result$smd
  )
})

# Manually add the count row
count_row <- tibble(
  Variable = "Count",
  Mean_Non_Attriter = sum(!is.na(filtered_data %>% filter(matched_attriter_w2 == FALSE) %>% pull(demos_w_
  Mean_Attriter = sum(!is.na(filtered_data %>% filter(matched_attriter_w2 == TRUE) %>% pull(demos_with_
  Difference = NA,
  SMD = NA
)

# Bind the count row to the results
results <- bind_rows(results, count_row)

```

```

# Create LaTeX table
latex_table <- results %>%
  kbl(caption = "Comparison of Means for Attriters vs. Non-Attriters", format = "latex", booktabs = TRUE,
      kable_styling(latex_options = c("hold_position")))

print(latex_table)

## \begin{table}[!h]
##
## \caption{\label{tab:tables SI.9-11}Comparison of Means for Attriters vs. Non-Attriters}
## \centering
## \begin{tabular}[t]{lrrrr}
## \toprule
## Variable & Mean\_{Non}\_Attriter & Mean\_Attriter & Difference & SMD\\
## \midrule
## party\_id & 0.38 & 0.41 & -0.03 & -0.07\\
## ideology\_yg & 2.66 & 2.62 & 0.04 & 0.03\\
## age & 49.12 & 46.63 & 2.49 & 0.14\\
## sex & 0.52 & 0.56 & -0.04 & -0.08\\
## educ\_dum & 0.33 & 0.35 & -0.02 & -0.05\\
## \addlinespace
## white & 0.71 & 0.69 & 0.02 & 0.05\\
## christian & 0.49 & 0.46 & 0.03 & 0.06\\
## child & 0.22 & 0.25 & -0.03 & -0.06\\
## job & 0.48 & 0.48 & 0.00 & -0.01\\
## marr\_dum & 0.51 & 0.55 & -0.04 & -0.09\\
## \addlinespace
## turnout2020 & 0.82 & 0.77 & 0.05 & 0.14\\
## Count & 584.00 & 454.00 & NA & NA\\
## \bottomrule
## \end{tabular}
## \end{table}

#### Table SI.11 ####

#create df for long vs. placebo (nationally representative)
long_placebo <- final_drops %>%
  filter(!is.na(treat_long_collapse2))

#treatment assignment (w2 attrition)
attrition1 <- lm(matched_attriter_w2~treat_long_collapse2, long_placebo)

covariates_noimp <- paste("treat_long_collapse2", "partyID", "ideology_yg", "age", "sex", "educ_dum", "
test1_noimp <- paste("matched_attriter_w2 ~ ", covariates_noimp, sep = "")

#model with covariates
attrition1_covariates_noimp <- lm(test1_noimp, long_placebo)

####Interaction Terms####
interactions_noimp <- paste("treat_long_collapse2*partyID", "ideology_yg*treat_long_collapse2", "age*t
test1_int_noimp <- paste("matched_attriter_w2 ~ ", interactions_noimp, sep = "")

```

```

#model with covariates + interactions
attrition1_interactions_noimp <- lm(test1_int_noimp, long_placebo)

attrition1_tables_noimp <- list(attrition1, attrition1_covariates_noimp, attrition1_interactions_noimp)

stargazer::stargazer(attrition1_tables_noimp, type="latex", title = "Likelihood of Attrition in Nationala

##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@sp.uzh.ch
## % Date and time: Sun, Jun 08, 2025 - 00:20:33
## \begin{table}[!htbp] \centering
## \caption{Likelihood of Attrition in Nationally Representative Sample: Non-Imputed Values (Long View)}
## \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lccc}
## \hline
## \hline \hline
## & \multicolumn{3}{c}{Attriter} & \\
## \cline{2-4}
## \hline & \multicolumn{3}{c}{(Long vs. Placebo)} & \\
## \hline & (1) & (2) & (3) & \\
## \hline
## treat\_long\_collapse2 & 0.034 (0.031) & 0.034 (0.031) & & $-$0.005 (0.136) \\
## partyID & & 0.039 (0.037) & 0.014 (0.051) & \\
## ideology\_yg & & 0.005 (0.014) & 0.0004 (0.019) & \\
## age & & $-$0.001 (0.001) & $-$0.003$^{*}$ (0.001) & \\
## sex & & 0.027 (0.032) & 0.125$^{***}$ (0.045) & \\
## educ\_dum & & 0.043 (0.035) & 0.095$^{*}$ (0.049) & \\
## white & & $-$0.013 (0.037) & $-$0.016 (0.052) & \\
## region\_21 & & $-$0.034 (0.046) & $-$0.066 (0.065) & \\
## region\_22 & & $-$0.033 (0.049) & $-$0.024 (0.068) & \\
## region\_23 & & $-$0.006 (0.042) & 0.008 (0.058) & \\
## christian & & $-$0.035 (0.033) & $-$0.070 (0.047) & \\
## child & & $-$0.002 (0.040) & 0.009 (0.057) & \\
## job & & $-$0.012 (0.034) & $-$0.101$^{**}$ (0.049) & \\
## marr\_dum & & 0.057$^{*}$ (0.033) & 0.109$^{**}$ (0.047) & \\
## turnout2020 & & $-$0.079$^{*}$ (0.044) & $-$0.030 (0.059) & \\
## treat\_long\_collapse2:partyID & & & 0.064 (0.074) & \\
## treat\_long\_collapse2:ideology\_yg & & & 0.005 (0.027) & \\
## treat\_long\_collapse2:age & & & 0.003 (0.002) & \\
## treat\_long\_collapse2:sex & & & $-$0.204$^{***}$ (0.064) & \\
## treat\_long\_collapse2:educ\_dum & & & $-$0.108 (0.069) & \\
## treat\_long\_collapse2:white & & & $-$0.007 (0.073) & \\
## treat\_long\_collapse2:region\_21 & & & 0.080 (0.092) & \\
## treat\_long\_collapse2:region\_22 & & & $-$0.006 (0.099) & \\
## treat\_long\_collapse2:region\_23 & & & $-$0.025 (0.083) & \\
## treat\_long\_collapse2:christian & & & 0.068 (0.066) & \\
## treat\_long\_collapse2:child & & & $-$0.012 (0.080) & \\
## treat\_long\_collapse2:job & & & 0.181$^{***}$ (0.069) & \\
## treat\_long\_collapse2:marr\_dum & & & $-$0.108 (0.067) & \\
## treat\_long\_collapse2:turnout2020 & & & $-$0.092 (0.088) & \\
## Constant & 0.420$^{***}$ (0.022) & 0.485$^{***}$ (0.069) & 0.494$^{***}$ (0.095) & \\
## \hline \hline
## Observations & 1,038 & 1,009 & 1,009 &

```

```

## R2 & 0.001 & 0.015 & 0.040 \\
## Adjusted R2 & 0.0002 & 0.0002 & 0.012 \\
## Residual Std. Error & 0.496 (df = 1036) & 0.494 (df = 993) & 0.491 (df = 979) \\
## F Statistic & 1.216 (df = 1; 1036) & 1.014 (df = 15; 993) & 1.408* (df = 29; 979) \\
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{3}{r}{*p<$0.1; **p<$0.05; ***p<$0.01} \\
## \end{tabular}
## \end{table}

```

Main outcomes and analyses

```
####Nationally Representative (SI.12)####
```

```
C1.1 <- lm_robust(aff_pol_idx~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp, se_type
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
C1.2 <- lm_robust(aff_pol_idx_outparty~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
C1.3 <- lm_robust(BA_newsletter_clicked~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
C1.4 <- lm_robust(donate_any~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp, se_type
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
get_table_4(C1.1, C1.2, C1.3, C1.4, "Main Analysis: Nationally Representative Sample (Long vs. Placebo)
```

```

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Nationally Representative Sample (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\
## \hline
## treat\_long\_collapse2 &  $-\text{0.14}^*$  &  $-\text{0.16}^*$  &  $\text{0.08}^*$  &  $-\text{0.04}$  \\
## &  $(\text{0.07})$  &  $(\text{0.07})$  &  $(\text{0.04})$  &  $(\text{0.04})$  \\
## \hline
## R2 &  $\text{0.01}$  &  $\text{0.02}$  &  $\text{0.01}$  &  $\text{0.00}$  \\
## Adj. R2 &  $\text{0.01}$  &  $\text{0.01}$  &  $\text{0.01}$  &  $\text{0.00}$  \\
## Num. obs. &  $\text{584}$  &  $\text{584}$  &  $\text{509}$  &  $\text{583}$ 

```

```

## RMSE                & $0.85$      & $0.86$      & $0.41$      & $0.46$      \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

####no IPWs (SI.13)####
C1.1_noipws <- lm_robust(aff_pol_idx~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "robust")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

C1.2_noipws <- lm_robust(aff_pol_idx_outparty~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "robust")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

C1.3_noipws <- lm_robust(BA_newsletter_clicked~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "robust")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

C1.4_noipws <- lm_robust(donate_any~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "robust")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

get_table_4(C1.1_noipws, C1.2_noipws, C1.3_noipws, C1.4_noipws, "Main Analysis: Nationally Representative Sample (Long vs. Placebo; NO IPWs)")

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Nationally Representative Sample (Long vs. Placebo; NO IPWs)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\
## \hline
## treat\_long\_collapse2 & $-0.13^{***}$ & $-0.15^{***}$ & $0.09^{***}$ & $-0.02$ \\
## & $(0.07)$ & $(0.07)$ & $(0.04)$ & $(0.04)$ \\
## \hline
## R$^2$ & $0.01$ & $0.01$ & $0.02$ & $0.00$ \\
## Adj. R$^2$ & $0.01$ & $0.01$ & $0.02$ & $-0.00$ \\
## Num. obs. & $584$ & $584$ & $509$ & $583$ \\
## RMSE & $0.64$ & $0.65$ & $0.31$ & $0.34$ \\

```

```

## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item  $p < 0.001$ ;  $p < 0.01$ ;  $p < 0.05$ . \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Full Sample (SI.14)

```

D1.1 <- lm_robust(aff_pol_idx~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
D1.2 <- lm_robust(aff_pol_idx_outparty~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
D1.3 <- lm_robust(BA_newsletter_clicked~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
D1.4 <- lm_robust(donate_any~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")

get_table_4(D1.1, D1.2, D1.3, D1.4, "Main Analysis: Full Sample (Long vs. Placebo)", "Affective Polarization")

```

```

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Full Sample (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\
## \hline
## treat\_long\_collapse2 &  $-0.08$  &  $-0.10^{*}$  &  $0.05^{*}$  &  $-0.03$  \\
## &  $(0.05)$  &  $(0.05)$  &  $(0.02)$  &  $(0.03)$  \\
## \hline
## R2 &  $0.00$  &  $0.01$  &  $0.01$  &  $0.00$  \\
## Adj. R2 &  $0.00$  &  $0.00$  &  $0.01$  &  $0.00$  \\
## Num. obs. &  $779$  &  $779$  &  $667$  &  $776$  \\
## RMSE &  $0.72$  &  $0.74$  &  $0.35$  &  $0.43$  \\
## \hline
## \end{tabular}
## \end{threeparttable}
## \begin{tablenotes}[flushleft]
## \footnotesize\item  $p < 0.001$ ;  $p < 0.01$ ;  $p < 0.05$ . \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Full Sample no IPWs (SI.15)

```

D1.1_noipw <- lm_robust(aff_pol_idx~treat_long_collapse2, final_drops, se_type = "HC1")

```

```

D1.2_noipw <- lm_robust(aff_pol_idx_outparty~treat_long_collapse2, final_drops, se_type = "HC1")
D1.3_noipw <- lm_robust(BA_newsletter_clicked~treat_long_collapse2, final_drops, se_type = "HC1")
D1.4_noipw <- lm_robust(donate_any~treat_long_collapse2, final_drops, se_type = "HC1")

get_table_4(D1.1_noipw, D1.2_noipw, D1.3_noipw, D1.4_noipw, "Main Analysis: Full Sample (Long vs. Placebo; NO IPWs)")

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Full Sample (Long vs. Placebo; NO IPWs)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\ \hline
## treat\_long\_collapse2 &  $-\text{\$}0.08\text{\$}$  &  $-\text{\$}0.10^{*}\text{\$}$  &  $\text{\$}0.06^{*}\text{\$}$  &  $-\text{\$}0.03\text{\$}$  \\ \hline
## &  $\text{\$}(0.05)\text{\$}$  &  $\text{\$}(0.05)\text{\$}$  &  $\text{\$}(0.02)\text{\$}$  &  $\text{\$}(0.03)\text{\$}$  \\ \hline
## R2 &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.01\text{\$}$  &  $\text{\$}0.01\text{\$}$  &  $\text{\$}0.00\text{\$}$  \\ \hline
## Adj. R2 &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.01\text{\$}$  &  $-\text{\$}0.00\text{\$}$  \\ \hline
## Num. obs. &  $\text{\$}779\text{\$}$  &  $\text{\$}779\text{\$}$  &  $\text{\$}667\text{\$}$  &  $\text{\$}776\text{\$}$  \\ \hline
## RMSE &  $\text{\$}0.63\text{\$}$  &  $\text{\$}0.65\text{\$}$  &  $\text{\$}0.31\text{\$}$  &  $\text{\$}0.37\text{\$}$  \\ \hline
## \end{tabular}
## \end{threeparttable}
## \begin{tablenotes}[flushleft]
## \footnotesize\item  $\text{\$}^{***}\text{\$}$ p<0.001 $\text{\$}$ ;  $\text{\$}^{**}\text{\$}$ p<0.01 $\text{\$}$ ;  $\text{\$}^{*}\text{\$}$ p<0.05 $\text{\$}$ . \\ \ Robust standard errors are used
## \end{tablenotes}
## \end{large}
## \end{center}
## \label{table:coefficients}
## \end{table}

```

Donations extra analysis

```

#create binary donation variables
final_drops <- final_drops %>%
  mutate(
    donate_BA_any = if_else(donate_BA > 0, 1,0),
    donate_allsides_any = if_else(donate_allsides > 0, 1,0),
    donate_lrc_any = if_else(donate_lrc > 0, 1,0)
  )

####All Donations (Table SI.16)####
H1.2b_BA_t <- lm_robust(donate_BA~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp, se

## Warning in eval(quote({: Some observations have missingness in the weights

```

```

## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
H1.2b_AS_t <- lm_robust(donate_all~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp,

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
H1.2b_LRC_t <- lm_robust(donate_lrc~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp,

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
H1.2b_all_t <- lm_robust(donate_all~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp,

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
get_table_4(H1.2b_BA_t, H1.2b_AS_t, H1.2b_LRC_t, H1.2b_all_t, "All Donations by Depolarization Organization")

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{All Donations by Depolarization Organization}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Braver Angels & AllSides & LivingRoom Conversations & Total \\ \
## \hline
## treat\_long\_collapse2 & $-0.52$ & $-2.43$ & $-1.31$ & $-4.26$ \\ \
## & $(1.28)$ & $(1.24)$ & $(1.57)$ & $(3.83)$ \\ \
## \hline
## R2 & $0.00$ & $0.01$ & $0.00$ & $0.00$ \\ \
## Adj. R2 & $-0.00$ & $0.01$ & $0.00$ & $0.00$ \\ \
## Num. obs. & $583$ & $583$ & $583$ & $583$ \\ \
## RMSE & $14.92$ & $14.28$ & $16.80$ & $40.44$ \\ \
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

#### NO IPWs (Table SI.17)####
H1.2b_BA_t_noIPWS <- lm_robust(donate_BA~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "robust")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been

```

```

## dropped.
H1.2b_AS_t_noIPWS <- lm_robust(donate_all~treat_long_collapse2, final_drops, weights = weight_w2, se_t

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
H1.2b_LRC_t_noIPWS <- lm_robust(donate_lrc~treat_long_collapse2, final_drops, weights = weight_w2, se_t

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
H1.2b_all_t_noIPWS <- lm_robust(donate_all~treat_long_collapse2, final_drops, weights = weight_w2, se_t

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
get_table_4(H1.2b_BA_t_noIPWS, H1.2b_AS_t_noIPWS, H1.2b_LRC_t_noIPWS, H1.2b_all_t_noIPWS, "All Donation

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{All Donations by Depolarization Organization (NO IPWs)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Braver Angels & AllSides & LivingRoom Conversations & Total \\
## \hline
## treat\_long\_collapse2 & $-0.16$ & $-2.03$ & $-0.92$ & $-3.12$ \\
## & $(1.29)$ & $(1.27)$ & $(1.56)$ & $(3.89)$ \\
## \hline
## R2 & $0.00$ & $0.01$ & $0.00$ & $0.00$ \\
## Adj. R2 & $-0.00$ & $0.01$ & $-0.00$ & $0.00$ \\
## Num. obs. & $583$ & $583$ & $583$ & $583$ \\
## RMSE & $11.29$ & $10.98$ & $12.54$ & $30.63$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

#### Any Donation (Table SI.18)

H1.2b_BA_any <- lm_robust(donate_BA_any~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noi

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been

```

```

## dropped.
H1.2b_AS_any <- lm_robust(donate_allsides_any~treat_long_collapse2, final_drops, weights = ipw_matched_w2_no

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
H1.2b_LRC_any <- lm_robust(donate_lrc_any~treat_long_collapse2, final_drops, weights = ipw_matched_w2_no

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
get_table_3(H1.2b_BA_any, H1.2b_AS_any, H1.2b_LRC_any, "Any Donations by Depolarization Organization",

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Any Donations by Depolarization Organization}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c}
## \hline
## & Braver Angels & AllSides & Living Room Conversations \\
## \hline
## treat\_long\_collapse2 & $-0.02$ & $-0.06$ & $-0.04$ \\
## & & & \\
## & $(0.04)$ & $(0.04)$ & $(0.04)$ \\
## \hline
## R$^2$ & $0.00$ & $0.01$ & $0.00$ \\
## Adj. R$^2$ & $-0.00$ & $0.01$ & $0.00$ \\
## Num. obs. & $583$ & $583$ & $583$ \\
## RMSE & $0.44$ & $0.43$ & $0.44$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Secondary Outcomes and Mechanisms

```

####Optimism About Survival of Institutions: Table SI.19####
K1.1 <- lm_robust(optimism_survive_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_no

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```

K1.2 <- lm_robust(optimism_survive_scale~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "HC1")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

K1.3 <- lm_robust(optimism_survive_scale~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")

K1.4 <- lm_robust(optimism_survive_scale~treat_long_collapse2, final_drops, se_type = "HC1")

get_table_4(K1.1, K1.2, K1.3, K1.4, "Main Analysis: Optimism about Survival of Democratic Institutions Wave 2 (Long vs. Placebo)")

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Optimism about Survival of Democratic Institutions Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $0.32^{**}$ & $0.30^{**}$ & $0.18^{*}$ & $0.18^{*}$ \\
## & $(0.10)$ & $(0.10)$ & $(0.07)$ & $(0.07)$ \\
## \hline
## R$^2$ & $0.03$ & $0.02$ & $0.01$ & $0.01$ \\
## Adj. R$^2$ & $0.03$ & $0.02$ & $0.01$ & $0.01$ \\
## Num. obs. & $583$ & $583$ & $776$ & $776$ \\
## RMSE & $1.26$ & $0.96$ & $1.13$ & $0.99$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used.
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

####Optimism about Restoring Civility (Table SI.20) ####
M1.1 <- lm_robust(optimism_civil_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

M1.2 <- lm_robust(optimism_civil_scale~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "HC1")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```

M1.3 <- lm_robust(optimism_civil_scale~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp,
M1.4 <- lm_robust(optimism_civil_scale~treat_long_collapse2, final_drops, se_type = "HC1")

get_table_4(M1.1, M1.2, M1.3, M1.4, "Main Analysis: Optimism about Restoring Civility Wave 2 (Long vs.

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Optimism about Restoring Civility Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $0.43^{***}$ & $0.39^{***}$ & $0.16^{*}$ & $0.15^{*}$ \\
## & & & & \\
## \hline
## R$^2$ & $0.05$ & $0.04$ & $0.01$ & $0.01$ \\
## Adj. R$^2$ & $0.04$ & $0.04$ & $0.00$ & $0.00$ \\
## Num. obs. & $583$ & $583$ & $776$ & $776$ \\
## RMSE & $1.29$ & $0.98$ & $1.15$ & $1.01$ \\
## \hline
## \end{tabular}
## \end{threeparttable}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

####Dialogue as effective tool for change (SI.21)####
N1.1 <- lm_robust(dialogue_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp, se_

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

N1.2 <- lm_robust(dialogue_scale~treat_long_collapse2, final_drops, weights = weight_w2, se_type = "HC1

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

N1.3 <- lm_robust(dialogue_scale~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se_type
N1.4 <- lm_robust(dialogue_scale~treat_long_collapse2, final_drops, se_type = "HC1")

get_table_4(N1.1, N1.2, N1.3, N1.4, "Main Analysis: Dialogue as Effective Tool For Change Wave 2 (Long vs.

##

```

```

## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Dialogue as Effective Tool For Change Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $0.46^{***}$ & $0.45^{***}$ & $0.28^{***}$ & $0.29^{***}$ \\
## & $(0.11)$ & $(0.10)$ & $(0.07)$ & $(0.07)$ \\
## \hline
## R2 & $0.05$ & $0.05$ & $0.02$ & $0.02$ \\
## Adj. R2 & $0.05$ & $0.05$ & $0.02$ & $0.02$ \\
## Num. obs. & $528$ & $528$ & $682$ & $682$ \\
## RMSE & $1.27$ & $0.96$ & $1.10$ & $0.97$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item  $p < 0.001$ ;  $p < 0.01$ ;  $p < 0.05$ . \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

#### Anti-Democratic Attitudes (SI.22) ####

#ipws
E1.1 <- lm_robust(antidem_idx~treat_long_collapse2, final_drops, se_type = "HC1", weights = ipw_matched)

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

#no IPWs
E1.2 <- lm_robust(antidem_idx~treat_long_collapse2, final_drops, se_type = "HC1", weights = weight_w2)

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

#full sample
E1.3 <- lm_robust(antidem_idx~treat_long_collapse2, final_drops, se_type = "HC1", weights = ipw_full_w2)

#no IPWs
E1.4 <- lm_robust(antidem_idx~treat_long_collapse2, final_drops, se_type = "HC1")

get_table_4(E1.1, E1.2, E1.3,E1.4, "Main Analysis: Anti-Democratic Attitudes Wave 2 (Long vs. Placebo)"

##
## \usepackage{threeparttable}
##

```

```

## \begin{table}[H]
## \caption{Main Analysis: Anti-Democratic Attitudes Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched Sample (IPWs) & Matched Sample (No IPWs) & Full Sample (IPWs) & Full Sample (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $-0.08$ & $-0.10$ & $-0.06$ & $-0.05$ \\
## & $(0.07)$ & $(0.07)$ & $(0.05)$ & $(0.05)$ \\
## \hline
## R2 & $0.00$ & $0.01$ & $0.00$ & $0.00$ \\
## Adj. R2 & $0.00$ & $0.00$ & $0.00$ & $0.00$ \\
## Num. obs. & $583$ & $583$ & $776$ & $776$ \\
## RMSE & $0.89$ & $0.67$ & $0.77$ & $0.67$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

```

#higher more united
final_drops <- final_drops %>%
  mutate(
    division = as.numeric(Q52_w2),
    division = if_else(division>100, NA, division),
    division_scaled = scale(division)
  )

```

```

## Warning: There was 1 warning in `mutate()`.
## i In argument: `division = as.numeric(Q52_w2)`.
## Caused by warning:
## ! NAs introduced by coercion

```

```

#Regression models
med_mass.perc <- lm(mass_perc_idx~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
med_division <- lm(division_scaled~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
med_openmind <- lm(understand_total~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
med_empathy <- lm(empathy_scale~treat_long_collapse2, final_drops, weights=ipw_matched_w2_noimp)
stereo_neg <- lm(stereo_outparty_neg_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
stereo_pos <- lm(stereo_outparty_pos_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

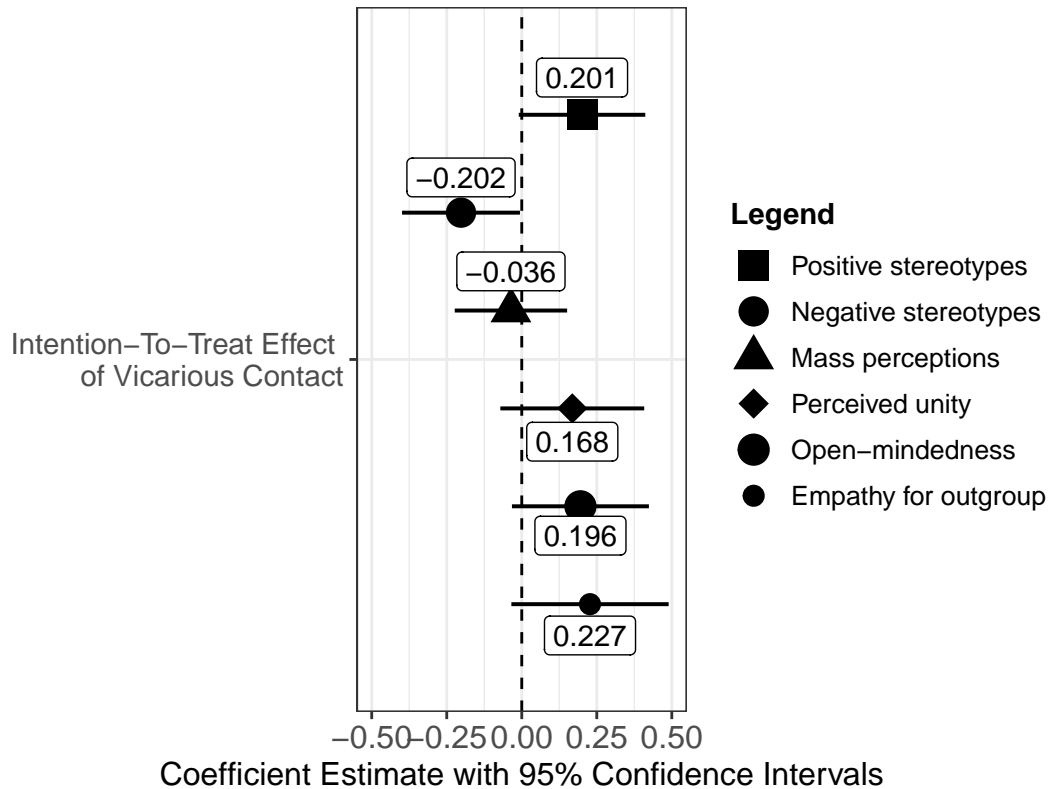
#Plot

```

```

modelslist <- list(
  med_empathy, med_openmind, med_division, med_mass.perc, stereo_neg, stereo_pos)
nameslist <- as.character(
  c("Empathy for outgroup", "Open-mindedness", "Perceived division", "Mass perceptions", "Perceived unity", "Open-mindedness", "Empathy for outgroup"))
mediators <- plot_generate_6(
  med_empathy, med_openmind, med_division, med_mass.perc, stereo_neg, stereo_pos)
mediators

```



```

#save
ggsave("Figures/SI/Figure_SI.8.png", plot = mediators, width=10, height=7)

```

Extensions

```

## Note that treat_long_collapse2 is the binary treatment indicator. In the manuscript, the name is man

#####Party ID (Table SI.23)#####
O1.1 <- lm_robust(aff_pol_idx~treat_long_collapse2*partyID, final_drops, weights = ipw_matched_w2_noimp

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
O1.2 <- lm_robust(aff_pol_idx~treat_long_collapse2*partyID, final_drops, weights = weight_w2, se_type =

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```

01.3 <- lm_robust(aff_pol_idx~treat_long_collapse2*partyID, final_drops, weights = ipw_full_w2_noimp, s
01.4 <- lm_robust(aff_pol_idx~treat_long_collapse2*partyID, final_drops, se_type = "HC1")
get_table_4(01.1, 01.2, 01.3, 01.4, "Main Analysis: Affective Polarization HTE by Party ID Wave 2 (Long

```

```

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Affective Polarization HTE by Party ID Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & & & & \\
## & & & & \\
## partyID & & & & \\
## & & & & \\
## treat\_long\_collapse2:partyID & & & & \\
## & & & & \\
## \hline
## R2 & & & & \\
## Adj. R2 & & & & \\
## Num. obs. & & & & \\
## RMSE & & & & \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item  $p < 0.001$ ;  $p < 0.01$ ;  $p < 0.05$ . \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

####Ideology (Table SI.24)####

```

P1.1 <- lm_robust(aff_pol_idx~treat_long_collapse2*ideo, final_drops, weights = ipw_matched_w2_noimp, s

```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```

P1.2 <- lm_robust(aff_pol_idx~treat_long_collapse2*ideo, final_drops, weights = weight_w2, se_type = "HC

```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```

P1.3 <- lm_robust(aff_pol_idx~treat_long_collapse2*ideo, final_drops, weights = ipw_full_w2_noimp, se_t

```

```

P1.4 <- lm_robust(aff_pol_idx~treat_long_collapse2*ideo, final_drops, se_type = "HC1")

```

```
get_table_4(P1.1, P1.2, P1.3, P1.4, "Main Analysis: Affective Polarization HTE by Ideology Wave 2 (Long vs. Placebo)")
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Affective Polarization HTE by Ideology Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 &  $-$0.56^{**}$  &  $-$0.49^{**}$  &  $-$0.26^{*}$  &  $-$0.26^{*}$  \\
## &  $$(0.20)$$  &  $$(0.19)$$  &  $$(0.13)$$  &  $$(0.12)$$  \\
## ideo &  $-$0.12^{***}$  &  $-$0.12^{***}$  &  $-$0.13^{***}$  &  $-$0.13^{***}$  \\
## &  $$(0.03)$$  &  $$(0.03)$$  &  $$(0.03)$$  &  $$(0.03)$$  \\
## treat\_long\_collapse2:ideo &  $-$0.13^{*}$  &  $-$0.10$  &  $-$0.06$  &  $-$0.06$  \\
## &  $$(0.06)$$  &  $$(0.06)$$  &  $$(0.04)$$  &  $$(0.04)$$  \\
## \hline
## R2 &  $0.05$  &  $0.04$  &  $0.04$  &  $0.04$  \\
## Adj. R2 &  $0.04$  &  $0.04$  &  $0.04$  &  $0.04$  \\
## Num. obs. &  $538$  &  $538$  &  $714$  &  $714$  \\
## RMSE &  $0.82$  &  $0.62$  &  $0.71$  &  $0.62$  \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item  $^{***}p<0.001$ ;  $^{**}p<0.01$ ;  $^{*}p<0.05$ . \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}
```

```
#### Media Index (Table SI.26)####
```

```
# media_truth_dum is manually changed to Media Trust in the SI for ease of interpretation
```

```
Q1.1 <- lm_robust(aff_pol_idx~treat_long_collapse2*media_truth_dum, final_drops, weights = ipw_matched)
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
Q1.2 <- lm_robust(aff_pol_idx~treat_long_collapse2*media_truth_dum, final_drops, weights = weight_w2, se_type = "HC1")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
Q1.3 <- lm_robust(aff_pol_idx~treat_long_collapse2*media_truth_dum, final_drops, weights = ipw_full_w2, se_type = "HC1")
```

```
Q1.4 <- lm_robust(aff_pol_idx~treat_long_collapse2*media_truth_dum, final_drops, se_type = "HC1")
```

```
get_table_4(Q1.1, Q1.2, Q1.3, Q1.4, "Main Analysis: Affective Polarization HTE by Partisan Media Confidence Wave 2 (Long vs. Placebo) (Long vs. Placebo) (Long vs. Placebo) (Long vs. Placebo)")
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Affective Polarization HTE by Partisan Media Confidence Wave 2 (Long vs. Placebo) (Long vs. Placebo) (Long vs. Placebo) (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\ \
## \hline
## treat\_long\_collapse2 & & & & \\
## & & & & \\
## media\_truth\_dum & & & & \\
## & & & & \\
## treat\_long\_collapse2:media\_truth\_dum & & & & \\
## & & & & \\
## \hline
## R2 & & & & \\
## Adj. R2 & & & & \\
## Num. obs. & & & & \\
## RMSE & & & & \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item  $p < 0.001$ ;  $p < 0.01$ ;  $p < 0.05$ . \\ \ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}
```

```
#Table SI.26
```

```
R1.1 <- lm_robust(aff_pol_idx_w3~treat_long_collapse2, final_drops, weights = ipw_matched_w3_noimp, se_type = "HCLM")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
R1.2 <- lm_robust(aff_pol_idx_w3~treat_long_collapse2, final_drops, weights = weight_w3, se_type = "HCLM")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
R1.3 <- lm_robust(aff_pol_idx_w3~treat_long_collapse2, final_drops, weights = ipw_full_w3_noimp, se_type = "HCLM")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
R1.4 <- lm_robust(aff_pol_idx_w3~treat_long_collapse2, final_drops, se_type = "HC1")
```

```
get_table_4(R1.1, R1.2, R1.3,R1.4, "Main Analysis: Affective Polarization Wave 3 (Long vs. Placebo)", "I
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Affective Polarization Wave 3 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $-0.11$ & $-0.10$ & $-0.03$ & $-0.04$ \\
## & $(0.07)$ & $(0.07)$ & $(0.05)$ & $(0.05)$ \\
## \hline
## R2 & $0.01$ & $0.01$ & $0.00$ & $0.00$ \\
## Adj. R2 & $0.01$ & $0.00$ & $-0.00$ & $-0.00$ \\
## Num. obs. & $506$ & $508$ & $613$ & $615$ \\
## RMSE & $0.91$ & $0.63$ & $0.81$ & $0.63$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}
```

```
#Table SI.26
```

```
S1.1 <- lm_robust(aff_pol_idx_outparty_w3~treat_long_collapse2, final_drops, weights = ipw_matched_w3_n
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
S1.2 <- lm_robust(aff_pol_idx_outparty_w3~treat_long_collapse2, final_drops, weights = weight_w3, se_ty
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
S1.3 <- lm_robust(aff_pol_idx_outparty_w3~treat_long_collapse2, final_drops, weights = ipw_full_w3_noim
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
S1.4 <- lm_robust(aff_pol_idx_outparty_w3~treat_long_collapse2, final_drops, se_type = "HC1")
```

```
get_table_4(S1.1, S1.2, S1.3,S1.4, "Main Analysis: Affective Polarization Outparty Only Wave 3 (Long vs
```

```

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Affective Polarization Outparty Only Wave 3 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $-0.12$ & $-0.11$ & $-0.04$ & $-0.03$ \\
## & $(0.08)$ & $(0.07)$ & $(0.05)$ & $(0.05)$ \\
## \hline
## R2 & $0.01$ & $0.01$ & $0.00$ & $0.00$ \\
## Adj. R2 & $0.01$ & $0.01$ & $-0.00$ & $-0.00$ \\
## Num. obs. & $506$ & $508$ & $613$ & $615$ \\
## RMSE & $0.95$ & $0.64$ & $0.82$ & $0.64$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Pre-registered analyses not featured in manuscript

####Table SI.28####

```
A1.1 <- lm_robust(aff_pol_idx~treat_long_collapse1, final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
summary(A1.1)
```

```

##
## Call:
## lm_robust(formula = aff_pol_idx ~ treat_long_collapse1, data = final_drops,
## weights = ipw_matched_w2_noimp, se_type = "HC1")
##
## Weighted, Standard error type: HC1
##
## Coefficients:
## Estimate Std. Error t value Pr(>|t|) CI Lower CI Upper DF
## (Intercept) 0.03264 0.03319 0.9834 0.3257 -0.0325 0.09777 941
## treat_long_collapse1 -0.09526 0.06289 -1.5147 0.1302 -0.2187 0.02816 941
##
## Multiple R-squared: 0.004961 , Adjusted R-squared: 0.003904
## F-statistic: 2.294 on 1 and 941 DF, p-value: 0.1302

```

```
A1.2 <- lm_robust(aff_pol_idx_outparty~treat_long_collapse1, final_drops, weights = ipw_matched_w2_noimp)
```

```
## Warning in eval(quote({: Some observations have missingness in the weights  
## variable(s) but not in the outcome or covariates. These observations have been  
## dropped.
```

```
summary(A1.2)
```

```
##  
## Call:  
## lm_robust(formula = aff_pol_idx_outparty ~ treat_long_collapse1,  
## data = final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")  
##  
## Weighted, Standard error type: HC1  
##  
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|) CI Lower CI Upper  
## (Intercept) 0.04959 0.03332 1.488 0.13699 -0.0158 0.114972  
## treat_long_collapse1 -0.12839 0.06245 -2.056 0.04006 -0.2509 -0.005835  
## DF  
## (Intercept) 941  
## treat_long_collapse1 941  
##  
## Multiple R-squared: 0.008925 , Adjusted R-squared: 0.007872  
## F-statistic: 4.227 on 1 and 941 DF, p-value: 0.04006
```

```
A1.3 <- lm_robust(BA_newsletter_clicked~treat_long_collapse1, final_drops, weights = ipw_matched_w2_noimp)
```

```
## Warning in eval(quote({: Some observations have missingness in the weights  
## variable(s) but not in the outcome or covariates. These observations have been  
## dropped.
```

```
summary(A1.3)
```

```
##  
## Call:  
## lm_robust(formula = BA_newsletter_clicked ~ treat_long_collapse1,  
## data = final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")  
##  
## Weighted, Standard error type: HC1  
##  
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|) CI Lower CI Upper  
## (Intercept) 0.05659 0.01108 5.107 4.065e-07 0.03484 0.07834  
## treat_long_collapse1 0.08881 0.03284 2.704 6.981e-03 0.02435 0.15326  
## DF  
## (Intercept) 834  
## treat_long_collapse1 834  
##  
## Multiple R-squared: 0.0224 , Adjusted R-squared: 0.02123  
## F-statistic: 7.314 on 1 and 834 DF, p-value: 0.006981
```

```
A1.4 <- lm_robust(donate_any~treat_long_collapse1, final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights  
## variable(s) but not in the outcome or covariates. These observations have been  
## dropped.
```

```
summary(A1.4)
```

```
##
## Call:
## lm_robust(formula = donate_any ~ treat_long_collapse1, data = final_drops,
##           weights = ipw_matched_w2_noimp, se_type = "HC1")
##
## Weighted, Standard error type: HC1
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|) CI Lower CI Upper
## (Intercept)      0.16243   0.02204    7.37 3.748e-13  0.1192  0.20568
## treat_long_collapse1 -0.04165   0.03559   -1.17 2.422e-01 -0.1115  0.02819
##
##               DF
## (Intercept)    939
## treat_long_collapse1 939
##
## Multiple R-squared:  0.003127 , Adjusted R-squared:  0.002065
## F-statistic:  1.37 on 1 and 939 DF,  p-value: 0.2422
```

```
get_table_4(A1.1, A1.2, A1.3, A1.4, "Main Analysis: Nationally Representative Sample Wave 2 (Long vs. P
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Nationally Representative Sample Wave 2 (Long vs. Placebo+Control)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\
## \hline
## treat\_long\_collapse1 &  $-\$0.10$  &  $-\$0.13^{*}$  &  $\$0.09^{**}$  &  $-\$0.04$  \\
## &  $-(0.06)$  &  $-(0.06)$  &  $(0.03)$  &  $-(0.04)$  \\
## \hline
## R2 &  $\$0.00$  &  $\$0.01$  &  $\$0.02$  &  $\$0.00$  \\
## Adj. R2 &  $\$0.00$  &  $\$0.01$  &  $\$0.02$  &  $\$0.00$  \\
## Num. obs. &  $\$943$  &  $\$943$  &  $\$836$  &  $\$941$  \\
## RMSE &  $\$0.83$  &  $\$0.83$  &  $\$0.36$  &  $\$0.46$  \\
## \hline
## \end{tabular}
## \end{threeparttable}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item  $^{***}p<0.001$ ;  $^{**}p<0.01$ ;  $^{*}p<0.05$ . \\ Robust standard errors are used}
## \end{tablenotes}
## \end{center}
## \label{table:coefficients}
## \end{table}
```

```
####Table SI.29####
```

```
B1.1 <- lm_robust(aff_pol_idx~treat_long_collapse1, final_drops, weights = ipw_full_w2_noimp, se_type =
```

```

B1.2 <- lm_robust(aff_pol_idx_outparty~treat_long_collapse1, final_drops, weights = ipw_full_w2_noimp,

B1.3 <- lm_robust(BA_newsletter_clicked~treat_long_collapse1, final_drops, weights = ipw_full_w2_noimp,

B1.4 <- lm_robust(donate_any~treat_long_collapse1, final_drops, weights = ipw_full_w2_noimp, se_type =

get_table_4(B1.1, B1.2, B1.3, B1.4, "Main Analysis: Full Sample Wave 2 (Long vs. Placebo+Control)", "Aff

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Full Sample Wave 2 (Long vs. Placebo+Control)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\ \
## \hline
## treat\_long\_collapse1 &  $-\text{\$}0.07\text{\$}$  &  $-\text{\$}0.09^{\text{\$}}\text{\$}$  &  $\text{\$}0.07^{\text{\$}}\text{\$}$  &  $-\text{\$}0.04\text{\$}$  \\ \
## &  $\text{\$}(0.04)\text{\$}$  &  $\text{\$}(0.04)\text{\$}$  &  $\text{\$}(0.02)\text{\$}$  &  $\text{\$}(0.02)\text{\$}$  \\ \
## \hline
## R2 &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.01\text{\$}$  &  $\text{\$}0.00\text{\$}$  \\ \
## Adj. R2 &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.00\text{\$}$  &  $\text{\$}0.01\text{\$}$  &  $\text{\$}0.00\text{\$}$  \\ \
## Num. obs. &  $\text{\$}1225\text{\$}$  &  $\text{\$}1225\text{\$}$  &  $\text{\$}1070\text{\$}$  &  $\text{\$}1218\text{\$}$  \\ \
## RMSE &  $\text{\$}0.70\text{\$}$  &  $\text{\$}0.71\text{\$}$  &  $\text{\$}0.32\text{\$}$  &  $\text{\$}0.43\text{\$}$  \\ \
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item  $\text{\$}^{\text{\$}}\text{\$}p<0.001\text{\$}$ ;  $\text{\$}^{\text{\$}}\text{\$}p<0.01\text{\$}$ ;  $\text{\$}^{\text{\$}}\text{\$}p<0.05\text{\$}$ . \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

####Table SI.30####
#ensure factor variable
final_drops <- final_drops %>%
  mutate(
    short_vs_long = as.factor(treat_long_short)
  )

#0 is empty control; 1 is Short PMC; 2 is Short VC; 3 is full film.

#Short vs. long 1
U1.1 <- lm_robust(aff_pol_idx~short_vs_long, final_drops, weights = ipw_matched_w2_noimp, se_type = "HC
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been

```

```

## dropped.
U1.2 <- lm_robust(aff_pol_idx_outparty~short_vs_long, final_drops, weights = ipw_matched_w2_noimp, se_t

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
U1.3 <- lm_robust(BA_newsletter_clicked~short_vs_long, final_drops, weights = ipw_matched_w2_noimp, se_

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
U1.4 <- lm_robust(donate_any~short_vs_long, final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
get_table_4(U1.1, U1.2, U1.3, U1.4, "Main Analysis: Nationally Representative Sample Wave 2 (Full Film

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Nationally Representative Sample Wave 2 (Full Film vs. Short Videos)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\
## \hline
## short\_vs\_long1 & $-0.02$ & $-0.05$ & $0.02$ & $-0.04$ \\
## & $(0.06)$ & $(0.06)$ & $(0.02)$ & $(0.04)$ \\
## short\_vs\_long2 & $0.01$ & $-0.02$ & $0.05^{*}$ & $0.01$ \\
## & $(0.07)$ & $(0.07)$ & $(0.02)$ & $(0.04)$ \\
## short\_vs\_long3 & $-0.06$ & $-0.10$ & $0.10^{**}$ & $-0.05$ \\
## & $(0.07)$ & $(0.07)$ & $(0.03)$ & $(0.04)$ \\
## \hline
## R$^2$ & $0.00$ & $0.00$ & $0.02$ & $0.00$ \\
## Adj. R$^2$ & $-0.00$ & $0.00$ & $0.02$ & $0.00$ \\
## Num. obs. & $1302$ & $1302$ & $1151$ & $1301$ \\
## RMSE & $0.81$ & $0.82$ & $0.36$ & $0.45$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Table SI.31####

```
T1.1 <- lm_robust(aff_pol_idx~short_vs_long, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
T1.2 <- lm_robust(aff_pol_idx_outparty~short_vs_long, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
T1.3 <- lm_robust(BA_newsletter_clicked~short_vs_long, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
T1.4 <- lm_robust(donate_any~short_vs_long, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
get_table_4(T1.1, T1.2, T1.3, T1.4, "Main Analysis: Full Sample Wave 2 (Full Film vs. Short Videos)",
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Full Sample Wave 2 (Full Film vs. Short Videos)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Only & BA Newsletter & Any Donation \\
## \hline
## short\_vs\_long1 & $-0.06$ & $-0.07$ & $0.03$ & $-0.01$ \\
## & $(0.04)$ & $(0.04)$ & $(0.02)$ & $(0.03)$ \\
## short\_vs\_long2 & $-0.04$ & $-0.07$ & $0.06^{**}$ & $0.02$ \\
## & $(0.04)$ & $(0.04)$ & $(0.02)$ & $(0.03)$ \\
## short\_vs\_long3 & $-0.06$ & $-0.09^{*}$ & $0.09^{***}$ & $-0.04$ \\
## & $(0.04)$ & $(0.05)$ & $(0.02)$ & $(0.03)$ \\
## \hline
## R2 & $0.00$ & $0.00$ & $0.01$ & $0.00$ \\
## Adj. R2 & $-0.00$ & $0.00$ & $0.01$ & $0.00$ \\
## Num. obs. & $1704$ & $1704$ & $1479$ & $1691$ \\
## RMSE & $0.69$ & $0.71$ & $0.32$ & $0.43$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}
```

Table SI.32

```
R2.1 <- lm_robust(aff_pol_idx~treat_short_collapse, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
R2.2 <- lm_robust(aff_pol_idx_outparty~treat_short_collapse, final_drops, weights = ipw_full_w2_noimp, se_type = "HC1")
```

```
R2.3 <- lm_robust(BA_newsletter_clicked~treat_short_collapse, final_drops, weights = ipw_full_w2_noimp,
R2.4 <- lm_robust(donate_any~treat_short_collapse, final_drops, weights = ipw_full_w2_noimp, se_type =
get_table_4(R2.1, R2.2, R2.3, R2.4, "Excluded Pre-Specified Analysis: Short Films Main Outcomes Wave 2
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Excluded Pre-Specified Analysis: Short Films Main Outcomes Wave 2 (Pooled short vs. Empty c
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Affective Polarization & Outparty Affective Polarization & BA Newsletter Clicks & Any Donation \\
## \hline
## treat\_short\_collapse & $-0.05$ & & $-0.07$ & & $0.05^{**}$ & & $0.00$ & \\
## & & & $(0.04)$ & & $(0.04)$ & & $(0.02)$ & \\
## \hline
## R$^2$ & & $0.00$ & & $0.00$ & & $0.01$ & & $0.00$ & \\
## Adj. R$^2$ & & $0.00$ & & $0.00$ & & $0.01$ & & $-0.00$ & \\
## Num. obs. & & $1326$ & & $1326$ & & $1160$ & & $1314$ & \\
## RMSE & & $0.67$ & & $0.69$ & & $0.29$ & & $0.43$ & \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}
```

Table SI.33

```
V1.1 <- lm_robust(UA_interest~treat_long_collapse2, final_drops, weights = ipw_matched_w3_noimp, se_type =
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
V1.2 <- lm_robust(UA_interest~treat_long_collapse2, final_drops, weights = weight_w3, se_type = "HC1")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
V1.3 <- lm_robust(UA_interest~treat_long_collapse2, final_drops, weights = ipw_full_w3_noimp, se_type =
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
V1.4 <- lm_robust(UA_interest~treat_long_collapse2, final_drops, se_type = "HC1")
```

```
get_table_4(V1.1, V1.2, V1.3, V1.4, "Excluded Pre-Specified Analysis: Unify America Sign-Ups (Full Film vs. Placebo)")
```

```
##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Excluded Pre-Specified Analysis: Unify America Sign-Ups (Full Film vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $-0.01$ & $0.00$ & $-0.01$ & $-0.01$ \\
## & $(0.05)$ & $(0.05)$ & $(0.03)$ & $(0.04)$ \\
## \hline
## R2 & $0.00$ & $0.00$ & $0.00$ & $0.00$ \\
## Adj. R2 & $-0.00$ & $-0.00$ & $-0.00$ & $-0.00$ \\
## Num. obs. & $506$ & $508$ & $615$ & $617$ \\
## RMSE & $0.60$ & $0.44$ & $0.55$ & $0.44$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}
```

```
#### Table SI.34 ####
```

```
W1.1 <- lm_robust(antidem_idx_w3~treat_long_collapse2, final_drops, weights=ipw_matched_w3_noimp, se_type = "HC1")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
W1.2 <- lm_robust(antidem_idx_w3~treat_long_collapse2, final_drops, weights=weight_w3, se_type = "HC1")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
W1.3 <- lm_robust(antidem_idx_w3~treat_long_collapse2, final_drops, weights=ipw_full_w3_noimp, se_type = "HC1")
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
W1.4 <- lm_robust(antidem_idx_w3~treat_long_collapse2, final_drops, se_type = "HC1")
```

```
get_table_4(W1.1, W1.2, W1.3, W1.4, "Excluded Pre-Specified Analysis: Anti-Democratic Attitudes Wave 3")
```

```

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Excluded Pre-Specified Analysis: Anti-Democratic Attitudes Wave 3 (Full Film vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $-0.13$ & $-0.11$ & $-0.06$ & $-0.04$ \\
## & $(0.09)$ & $(0.08)$ & $(0.06)$ & $(0.06)$ \\
## \hline
## R2 & $0.01$ & $0.01$ & $0.00$ & $0.00$ \\
## Adj. R2 & $0.01$ & $0.00$ & $0.00$ & $-0.00$ \\
## Num. obs. & $506$ & $508$ & $612$ & $614$ \\
## RMSE & $1.03$ & $0.71$ & $0.89$ & $0.70$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \ \ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Ancillary Analyses

```

#### Figure SI.9 ####
therm <- lm(therm_diff_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
trust <- lm(trust_diff_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
discomfort_marr <- lm(discomfort_outparty_marriage_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
discomfort_friend <- lm(discomfort_outparty_friends_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
discomfort_neighbor <- lm(discomfort_outparty_neighbors_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
threat <- lm(threat_outparty_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)
neg_par <- lm(neg_partisan_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

models_list <- list(therm, trust, discomfort_marr, discomfort_friend, discomfort_neighbor, threat, neg_par)

names_list <- c("Feeling Thermometer", "Trust Difference",
               "Discomfort Marriage", "Discomfort
               Friends", "Discomfort Neighbors",
               "Outparty Threat", "Negative Partisanship")

```

```

affpol_components <- plot_generate_7b(models_list, names_list, "Affective Polarization Index Breakdown by Component")

## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model

## Tidied all models

## Creating dwplot

## After dwplot

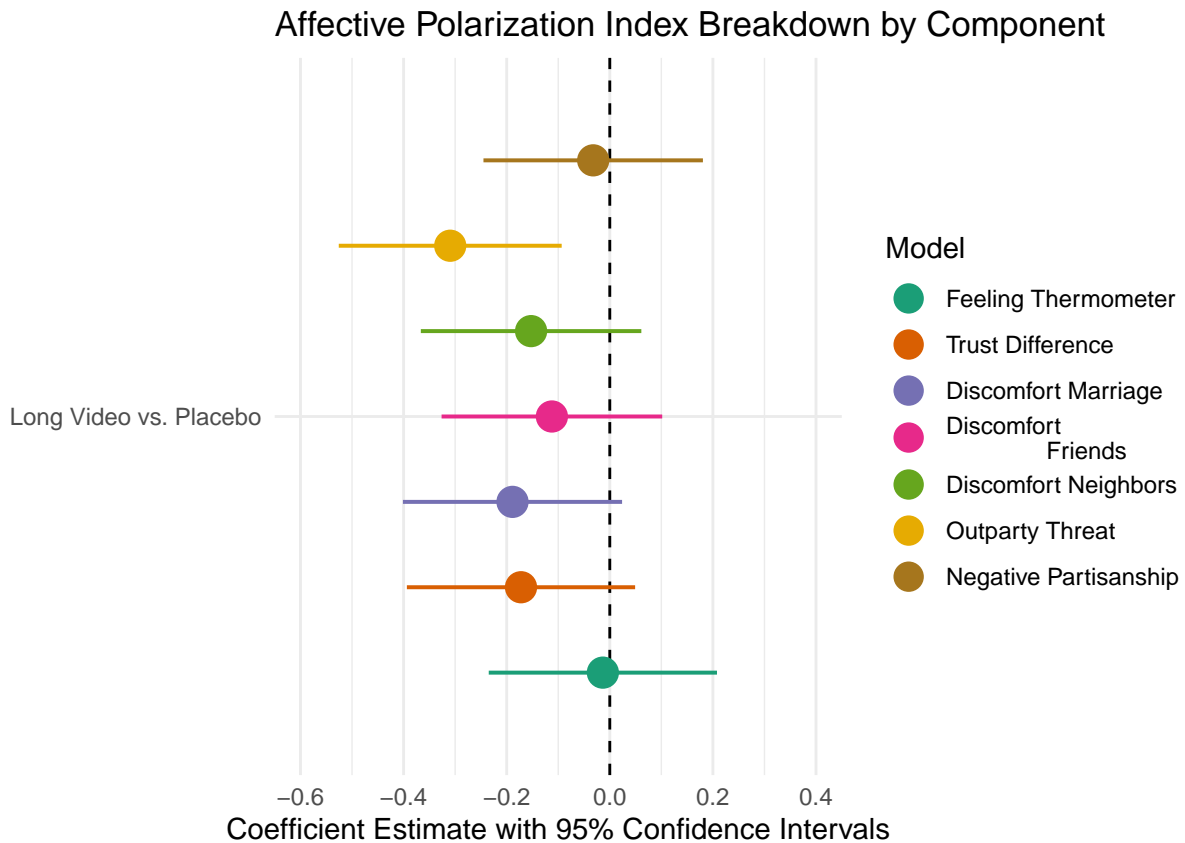
## [1] "gg"      "ggplot"

## After relabel_predictors

## [1] "gg"      "ggplot"

## Final plot built successfully.
affpol_components

```



```

ggsave("Figures/SI/Figure_SI.9.png", plot = affpol_components, width=10, height=7)

```

Figure SI.10

```

#Outparty Only
therm_out <- lm(therm_outparty_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

trust_out <- lm(trust_outparty_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp)

models_list2 <- list(therm_out, trust_out, discomfort_marr, discomfort_friend, discomfort_neighbor, thr
names_list2 <- c("Feeling Thermometer Outparty", "Trust Outparty", "Discomfort Marriage", "Discomfort Fr

affpol_components_outparty <- plot_generate_7b(models_list2, names_list2, "Affective Polarization Index

## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model
## Tidying model

## Tidied all models

## Creating dwplot

## After dwplot

## [1] "gg"      "ggplot"

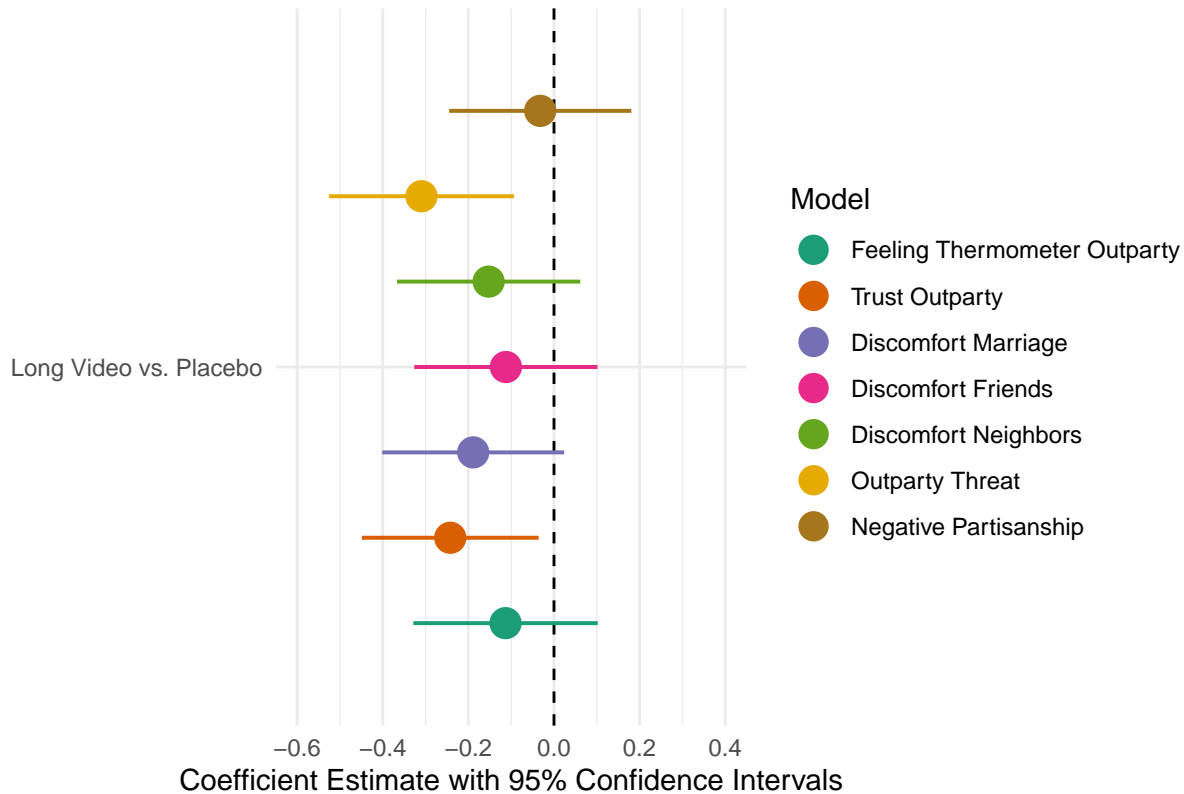
## After relabel_predictors

## [1] "gg"      "ggplot"

## Final plot built successfully.
affpol_components_outparty

```

Affective Polarization Index (Outparty Only): Breakdown by C



```
ggsave("Figures/SI/Figure_SI.10.png", plot = affpol_components_outparty, width=10, height=7)
```

```
#### Table SI.35 ####
```

```
final_drops <- final_drops %>%
```

```
  mutate(
    therm_inparty_scale = scale(therm_inparty),
    therm_inparty_w3_scale = scale(therm_inparty_w3),
    trust_inparty_scale = scale(trust_inparty),
    trust_inparty_w3_scale = scale(trust_inparty_w3)
  )
```

```
trust_inparty_only <- lm_robust(trust_inparty_scale~treat_long_collapse2, final_drops, weights = ipw_ma
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
therm_inparty_only <- lm_robust(therm_inparty_scale~treat_long_collapse2, final_drops, weights = ipw_ma
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
get_table_2(trust_inparty_only, therm_inparty_only, "Effect of Documentary on Ingroup Affective Polariz
```

```
##
## \usepackage{threeparttable}
##
```

```

## \begin{table}[H]
## \caption{Effect of Documentary on Ingroup Affective Polarization Measures}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c}
## \hline
## & Ingroup Trust & Ingroup Warmth \\
## \hline
## treat\_long\_collapse2 & $-0.01$ & $0.10$ \\
## & $(0.11)$ & $(0.10)$ \\
## \hline
## R2 & $0.00$ & $0.00$ \\
## Adj. R2 & $-0.00$ & $0.00$ \\
## Num. obs. & $583$ & $563$ \\
## RMSE & $1.33$ & $1.27$ \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Figure SI.11

```
HTE1.3_dialogue <- lm(dialogue_scale~treat_long_collapse2*partyID, final_drops, weights = ipw_matched_w
```

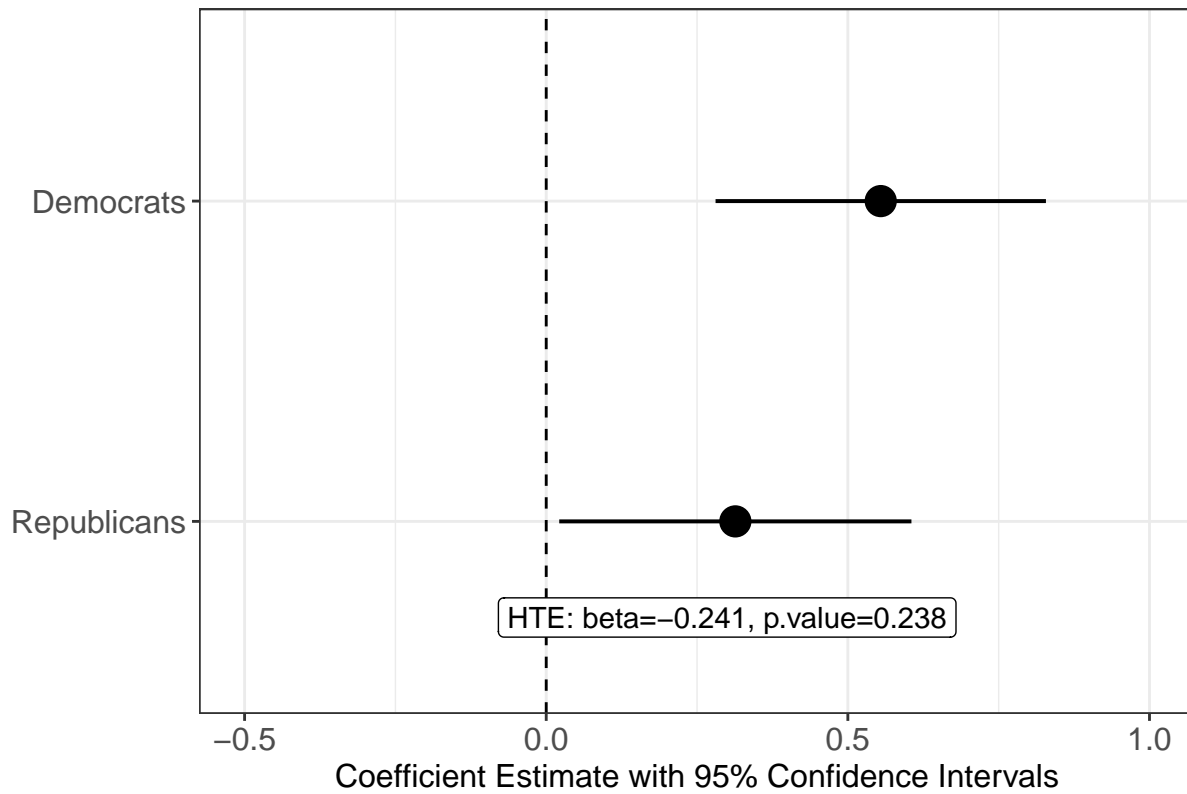
#generate df and plot

```
HTE1.3_df <- get_cate(HTE1.3_dialogue, "Democrats", "Republicans")
```

```
dialogue_cate <- plot_cate(HTE1.3_df, "A: Dialogue Effectiveness", c(-0.5,1))
```

```
dialogue_cate
```

A: Dialogue Effectiveness

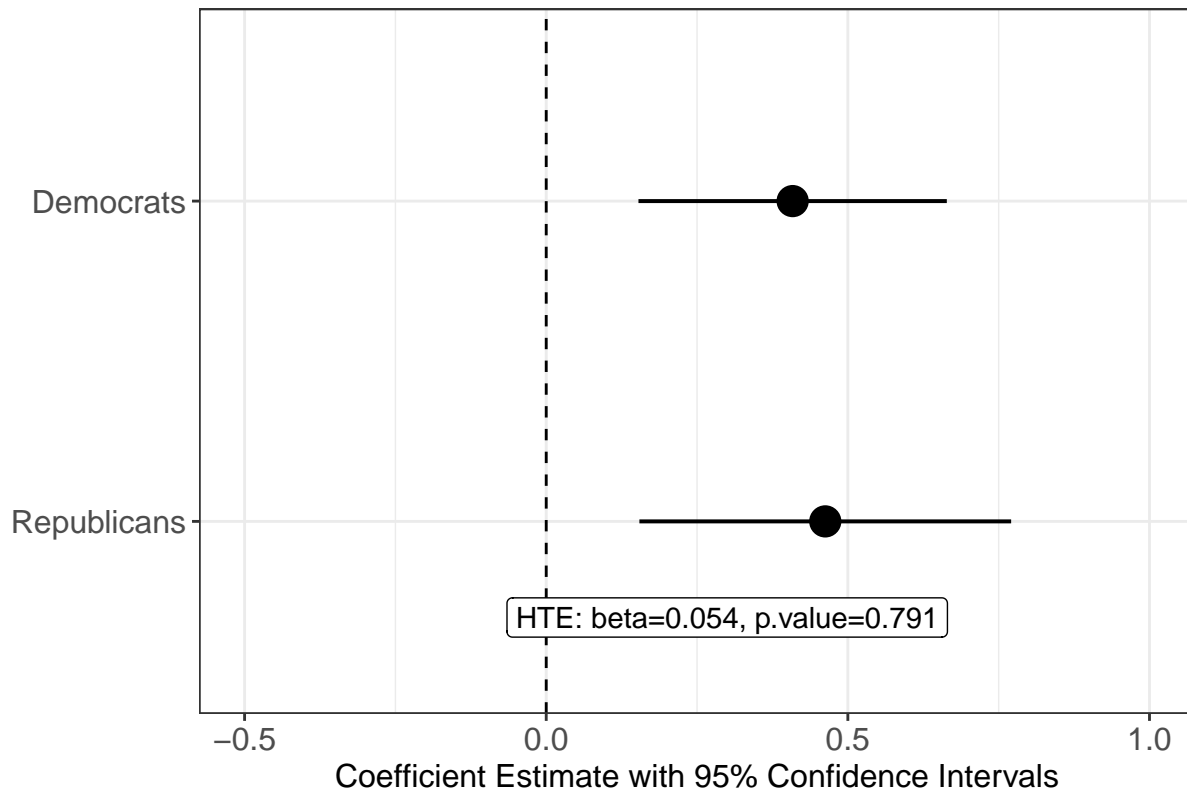


```
#optimism about restoring civility
HTE1.5_optimism_civil <- lm(optimism_civil_scale~treat_long_collapse2*partyID, final_drops, weights = i

#generate df and plot
HTE1.5_df <- get_cate(HTE1.5_optimism_civil, "Democrats", "Republicans")
optimism_civil_cate <- plot_cate(HTE1.5_df, "B: Restoring Civility and Goodwill", c(-0.5,1))

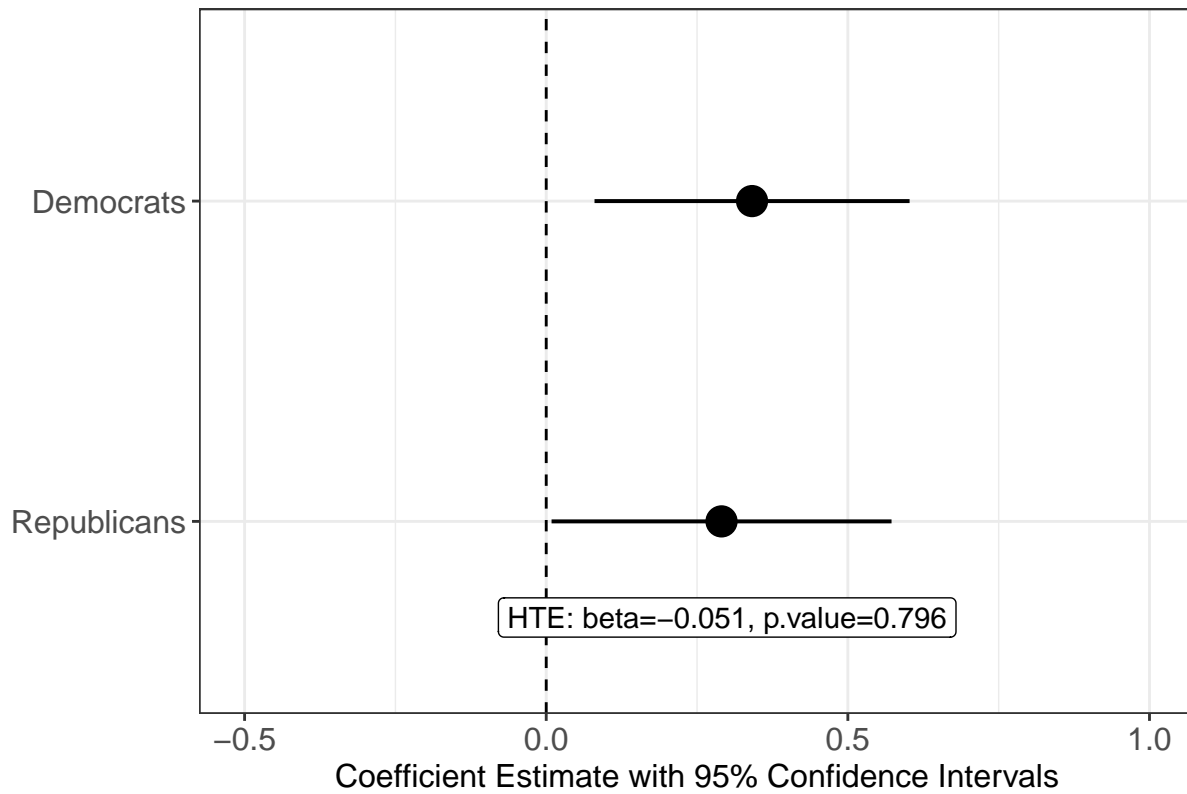
optimism_civil_cate
```

B: Restoring Civility and Goodwill



```
#optimism about survival of democratic institutions
HTE1.6_optimism_survive <- lm(optimism_survive_scale~treat_long_collapse2*partyID, final_drops, weights
#generate df and plot
HTE1.6_df <- get_cate(HTE1.6_optimism_survive, "Democrats", "Republicans")
optimism_democracy_cate <- plot_cate(HTE1.6_df, "C: Survival of Democratic Institutions", c(-0.5,1))
optimism_democracy_cate
```

C: Survival of Democratic Institutions

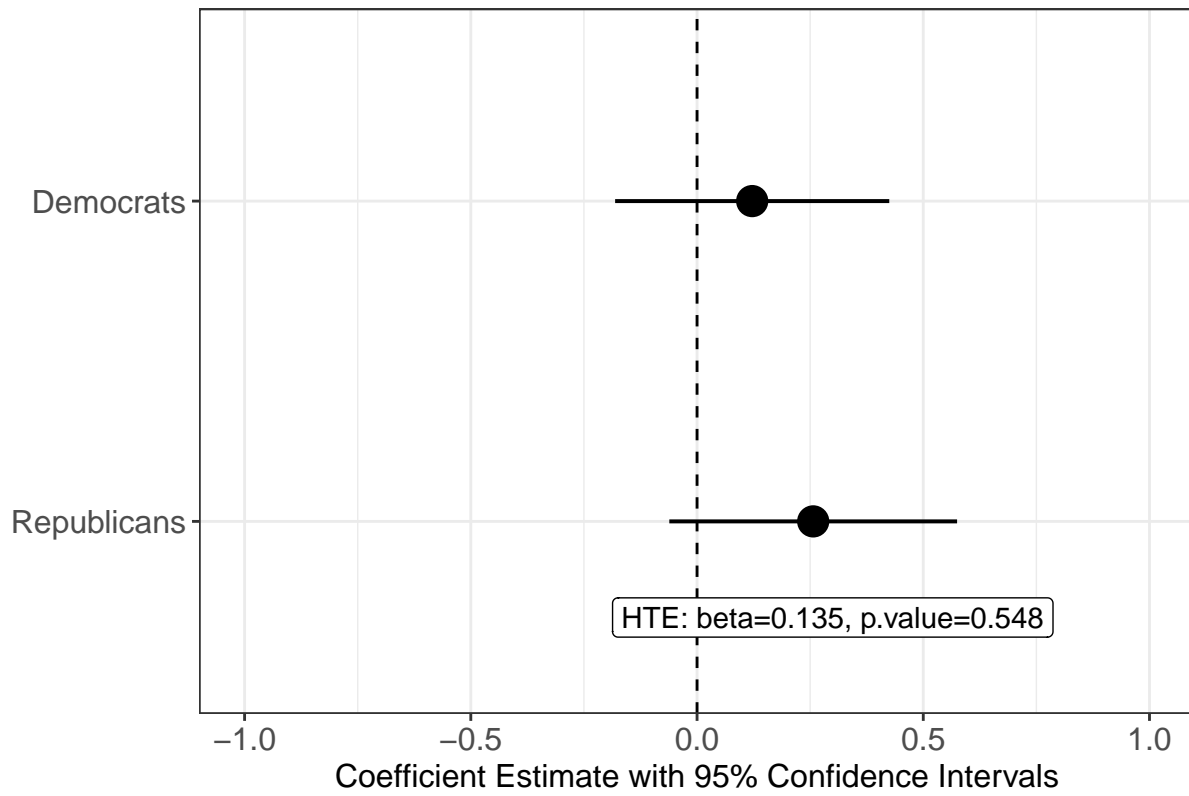


```
#non-violent change still possible
HTE1.8_nonviol <- lm(nonviol_change_scale~treat_long_collapse2*partyID, final_drops, weights = ipw_match)

#generate df and plot
HTE1.8_df <- get_cate(HTE1.8_nonviol, "Democrats", "Republicans")
nonviol_cate <- plot_cate(HTE1.8_df, "D: Non-Violent Change", c(-1,1))

nonviol_cate
```

D: Non-Violent Change

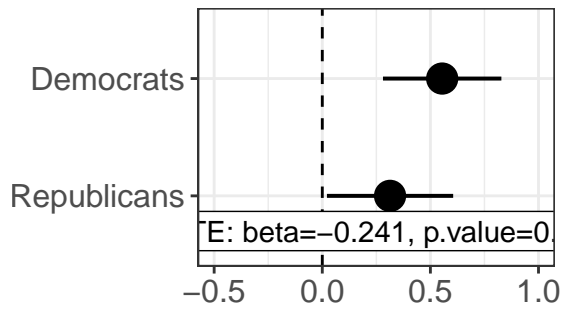


```
library(patchwork)
```

```
combined_secondary_HTE_plots <- dialogue_cate + optimism_civil_cate + optimism_democracy_cate + nonviol_
```

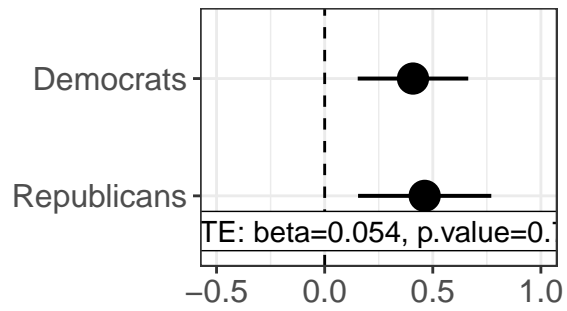
```
combined_secondary_HTE_plots
```

A: Dialogue Effectiveness



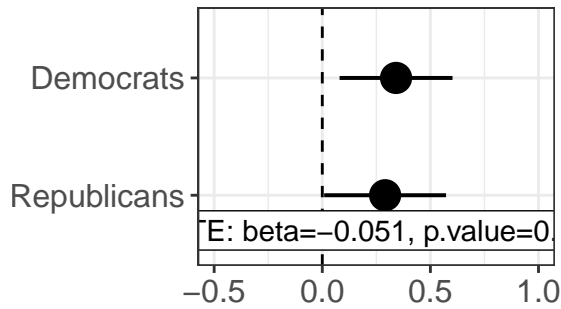
Coefficient Estimate with 95% Confidence Interval

B: Restoring Civility a

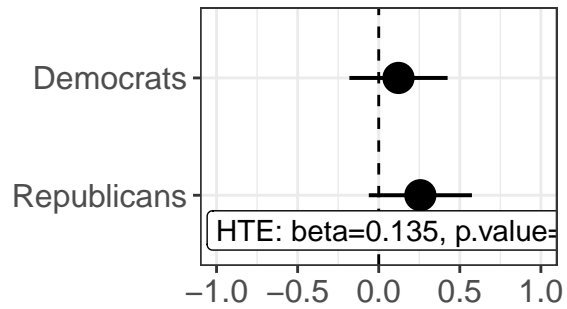


Coefficient Estimate with 95% Confidence Interval

C: Survival of Democratic Institutions Non-Violent Change



Coefficient Estimate with 95% Confidence Interval



Coefficient Estimate with 95% Confidence Interval

```
#save
ggsave("Figures/SI/Figure_SI.12.png", plot = combined_secondary_HTE_plots, width=10, height=7)

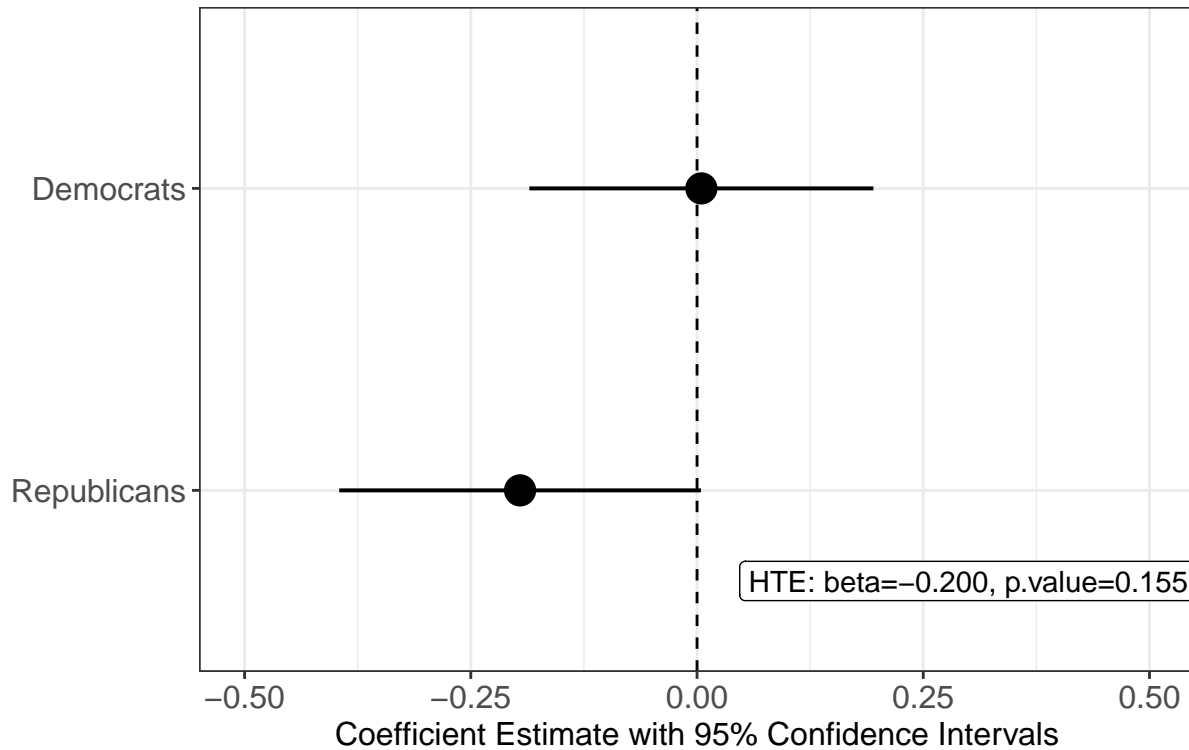
#### Figure SI.12 ####
antidem_cate_ID <- lm(antidem_idx~treat_long_collapse2*partyID, final_drops, weights = ipw_matched_w2_n

antidem_partyID <- get_cate(antidem_cate_ID, "Democrats", "Republicans")

antidem_partyID_plot <- plot_cate(antidem_partyID, "CATE Anti-Democratic Attitudes Party ID:
  Nationally Representative Sample Wave 2", c(-0.5,0.5))

antidem_partyID_plot
```

CATE Anti-Democratic Attitudes Party ID: Nationally Representative Sample Wave 2



```
ggsave("Figures/SI/Figure_SI.12.png", plot = antidem_partyID_plot, width=10, height=7)
```

```
#### Table SI.36 ####
```

```
# Create time bins by 24 hours
```

```
final_drops <- final_drops %>%
```

```
  mutate(
```

```
    time_bins = case_when(
```

```
      post_treat_w2 <= 24 ~ 0, # First bin: 24 hours or less
```

```
      post_treat_w2 > 24 & post_treat_w2 <= 48 ~ 1, # Second bin: 25-48 hours
```

```
      post_treat_w2 > 48 & post_treat_w2 <= 72 ~ 2, # Third bin: 49-72 hours
```

```
      post_treat_w2 > 72 & post_treat_w2 <= 96 ~ 3, # Fourth bin: 73-96 hours
```

```
      post_treat_w2 > 96 & post_treat_w2 <= 120 ~ 4, # Fifth bin: 97-120 hours
```

```
      post_treat_w2 > 120 & post_treat_w2 <= 144 ~ 5, # Sixth bin: 121-144 hours
```

```
      post_treat_w2 > 144 & post_treat_w2 <= 168 ~ 6, # Seventh bin: 145-168 hours
```

```
      post_treat_w2 > 168 & post_treat_w2 <= 192 ~ 7, # Eighth bin: 169-192 hours
```

```
      post_treat_w2 > 192 & post_treat_w2 <= 216 ~ 8, # Ninth bin: 193-216 hours
```

```
      post_treat_w2 > 216 ~ 9 # Tenth bin: 217 hours or more
```

```
    )
```

```
  )
```

```
by_time <- lm_robust(aff_pol_idx~treat_long_collapse2*time_bins, final_drops, weights=ipw_matched_w2_no
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
```

```
## variable(s) but not in the outcome or covariates. These observations have been
```

```
## dropped.
```

```
summary(by_time)
```

```
##
## Call:
## lm_robust(formula = aff_pol_idx ~ treat_long_collapse2 * time_bins,
## data = final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")
##
## Weighted, Standard error type: HC1
##
## Coefficients:
## Estimate Std. Error t value Pr(>|t|) CI Lower
## (Intercept) 0.118417 0.10861 1.0903 0.27602 -0.09489
## treat_long_collapse2 -0.296945 0.17812 -1.6671 0.09604 -0.64679
## time_bins -0.009045 0.02199 -0.4113 0.68100 -0.05224
## treat_long_collapse2:time_bins 0.035750 0.03341 1.0701 0.28502 -0.02987
## CI Upper DF
## (Intercept) 0.33173 580
## treat_long_collapse2 0.05290 580
## time_bins 0.03415 580
## treat_long_collapse2:time_bins 0.10137 580
##
## Multiple R-squared: 0.0157 , Adjusted R-squared: 0.01061
## F-statistic: 1.531 on 3 and 580 DF, p-value: 0.2055
```

```
by_time_out <- lm_robust(aff_pol_idx_outparty ~ treat_long_collapse2*time_bins, final_drops, weights=ipw_
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
summary(by_time_out)
```

```
##
## Call:
## lm_robust(formula = aff_pol_idx_outparty ~ treat_long_collapse2 *
## time_bins, data = final_drops, weights = ipw_matched_w2_noimp,
## se_type = "HC1")
##
## Weighted, Standard error type: HC1
##
## Coefficients:
## Estimate Std. Error t value Pr(>|t|) CI Lower
## (Intercept) 0.10757 0.12196 0.8820 0.3781 -0.13197
## treat_long_collapse2 -0.31105 0.18560 -1.6759 0.0943 -0.67558
## time_bins -0.00510 0.02417 -0.2110 0.8330 -0.05257
## treat_long_collapse2:time_bins 0.03382 0.03496 0.9675 0.3337 -0.03484
## CI Upper DF
## (Intercept) 0.34712 580
## treat_long_collapse2 0.05348 580
## time_bins 0.04237 580
## treat_long_collapse2:time_bins 0.10249 580
##
## Multiple R-squared: 0.01989 , Adjusted R-squared: 0.01482
## F-statistic: 1.992 on 3 and 580 DF, p-value: 0.1141
```

```

#make table
get_table_2(by_time, by_time_out, "Affective Polarization by Wave 2 Response Time", "Affective Polariza

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Affective Polarization by Wave 2 Response Time}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c}
## \hline
## & Affective Polarization & Outparty Only \\
## \hline
## treat\_long\_collapse2 & & \\
## & & \\
## time\_bins & & \\
## & & \\
## treat\_long\_collapse2:time\_bins & & \\
## & & \\
## \hline
## R2 & & \\
## Adj. R2 & & \\
## Num. obs. & & \\
## RMSE & & \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item  $p < 0.001$ ;  $p < 0.01$ ;  $p < 0.05$ . \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

#### Figure SI.13 ####
#belief in possibility of non-violent democratic change
Y1.1_w3 <- lm(nonviol_change_scale_w3~treat_long_collapse2, final_drops, weights = ipw_matched_w3_noimp)

Y1.4_w3 <- lm(dialogue_scale_w3~treat_long_collapse2, final_drops, weights = ipw_matched_w3_noimp)

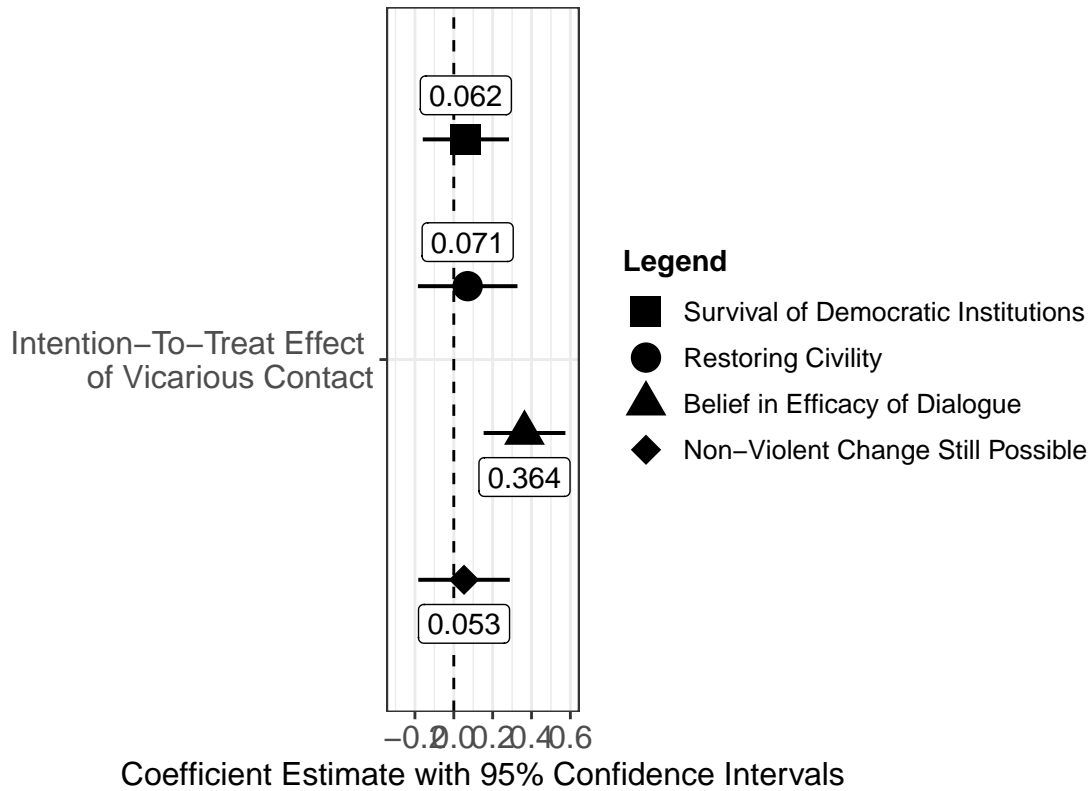
Y2.1_w3 <- lm(optimism_civil_scale_w3~treat_long_collapse2, final_drops, weights = ipw_matched_w3_noimp)

Y2.2_w3 <- lm(optimism_survive_scale_w3~treat_long_collapse2, final_drops, weights = ipw_matched_w3_noimp)

optimism_plot_PAP_w3 <- plot_generate_4(Y1.1_w3, Y1.4_w3, Y2.1_w3, Y2.2_w3, "Non-Violent Change Still P

print(optimism_plot_PAP_w3)

```



```
#save
ggsave("Figures/SI/Figure_SI.13.png", plot = optimism_plot_PAP_w3, width=10, height=7)

#### Table SI.37 ####
#HTEs covariates
covars <- c("age", "sex", "educ_dum", "white", "christian", "child", "job", "marr_dum", "turnout2020",
covars_formula <- paste(covars, collapse = " + ")
formula <- as.formula(paste("aff_pol_idx ~ treat_long_collapse2 * partyID +", covars_formula))

HTE1.1_covars <- lm_robust(formula, data = final_drops, weights = ipw_matched_w2_noimp, se_type = "HC1")

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

HTE1.1_covars_2 <- lm(formula, data = final_drops, weights = ipw_matched_w2_noimp)

summary(HTE1.1_covars_2)

##
## Call:
## lm(formula = formula, data = final_drops, weights = ipw_matched_w2_noimp)
##
## Weighted Residuals:
##      Min       1Q   Median       3Q      Max
## -2.91501 -0.53122 -0.04036  0.55875  2.80462
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.074649   0.107682   0.693  0.48847
```

```
## treat_long_collapse2      -0.218283    0.071825   -3.039  0.00249 **
## partyID                   -0.005290    0.096576   -0.055  0.95634
## age                       -0.001143    0.001758   -0.650  0.51588
## sex                        0.004435    0.054706    0.081  0.93541
## educ_dum                   0.049399    0.062778    0.787  0.43170
## white                      -0.035353    0.060817   -0.581  0.56129
## christian                   -0.085212    0.058896   -1.447  0.14854
## child                      -0.142988    0.068252   -2.095  0.03665 *
## job                        -0.030023    0.059426   -0.505  0.61362
## marr_dum                   -0.084390    0.059190   -1.426  0.15454
## turnout2020                0.313886    0.076037    4.128  4.26e-05 ***
## ideo_scale                 -0.095549    0.037583   -2.542  0.01130 *
## treat_long_collapse2:partyID  0.128129    0.110065    1.164  0.24490
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8046 on 524 degrees of freedom
## (2035 observations deleted due to missingness)
## Multiple R-squared:  0.09506, Adjusted R-squared:  0.0726
## F-statistic: 4.234 on 13 and 524 DF, p-value: 9.476e-07
```

```
#HTEs covariates outparty
```

```
formula_out <- as.formula(paste("aff_pol_idx_outparty ~ treat_long_collapse2 * partyID +", covars_formu
```

```
HTE1.1_covars_out <- lm_robust(formula_out, data = final_drops, weights = ipw_matched_w2_noimp, se_type
```

```
## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.
```

```
summary(HTE1.1_covars_out)
```

```
##
## Call:
## lm_robust(formula = formula_out, data = final_drops, weights = ipw_matched_w2_noimp,
##           se_type = "HC1")
##
## Weighted, Standard error type: HC1
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|) CI Lower
## (Intercept)    0.211872   0.142957  1.48207  0.13892 -0.068968
## treat_long_collapse2 -0.224803   0.087578 -2.56690  0.01054 -0.396849
## partyID         0.022587   0.103081  0.21912  0.82664 -0.179915
## age            -0.002532   0.002706 -0.93576  0.34983 -0.007848
## sex            0.005841   0.066147  0.08831  0.92966 -0.124104
## educ_dum       0.064062   0.074684  0.85778  0.39141 -0.082655
## white          -0.054422   0.074718 -0.72837  0.46671 -0.201206
## christian       -0.118547   0.071547 -1.65692  0.09813 -0.259101
## child          -0.194753   0.085327 -2.28244  0.02286 -0.362378
## job            -0.028202   0.078547 -0.35904  0.71971 -0.182507
## marr_dum       -0.082185   0.066662 -1.23286  0.21818 -0.213142
## turnout2020    0.242592   0.112983  2.14715  0.03224  0.020636
## ideo_scale     -0.116404   0.045177 -2.57658  0.01025 -0.205155
## treat_long_collapse2:partyID  0.140295   0.133277  1.05266  0.29298 -0.121528
```

```

##              CI Upper  DF
## (Intercept)    0.492712 524
## treat_long_collapse2 -0.052757 524
## partyID        0.225090 524
## age            0.002784 524
## sex            0.135787 524
## educ_dum      0.210779 524
## white         0.092361 524
## christian      0.022006 524
## child        -0.027129 524
## job           0.126103 524
## marr_dum     0.048772 524
## turnout2020  0.464548 524
## ideo_scale   -0.027652 524
## treat_long_collapse2:partyID 0.402119 524
##
## Multiple R-squared:  0.1058 ,    Adjusted R-squared:  0.08363
## F-statistic:  3.55 on 13 and 524 DF,  p-value: 2.361e-05
HTE1.1_covars_out_2 <- lm(formula_out, data = final_drops, weights = ipw_matched_w2_noimp)

#create table
get_table_2(HTE1.1_covars, HTE1.1_covars_out, "", "Affective polarization", "Outparty only")

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c}
## \hline
## & Affective polarization & Outparty only \\
## \hline
## treat\_long\_collapse2 & & \\
## & & \\
## partyID & & \\
## age & & \\
## sex & & \\
## & & \\
## educ\_dum & & \\
## & & \\
## white & & \\
## & & \\
## christian & & \\
## & & \\
## child & & \\
## & & \\
## job & & \\
## & &

```

```

## marr\_dum          & $-0.08$      & $-0.08$      \\
##                  & $(0.07)$      & $(0.07)$      \\
## turnout2020      & $0.31^{***}$ & $0.24^{*}$   \\
##                  & $(0.11)$      & $(0.11)$      \\
## ideo\_scale      & $-0.10^{*}$  & $-0.12^{*}$  \\
##                  & $(0.04)$      & $(0.05)$      \\
## treat\_long\_collapse2:partyID & $0.13$      & $0.14$      \\
##                  & $(0.13)$      & $(0.13)$      \\
## \hline
## R$^2$            & $0.10$      & $0.11$      \\
## Adj. R$^2$      & $0.07$      & $0.08$      \\
## Num. obs.       & $538$      & $538$      \\
## RMSE            & $0.80$      & $0.82$      \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

#### Table SI.38 ####
L1.1 <- lm_robust(optimism_pol_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp,

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

L1.2 <- lm_robust(optimism_pol_scale~treat_long_collapse2, final_drops, weights = weight_w2, se_type =

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

L1.3 <- lm_robust(optimism_pol_scale~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, se

L1.4 <- lm_robust(optimism_pol_scale~treat_long_collapse2, final_drops, se_type = "HC1")

get_table_4(L1.1, L1.2, L1.3, L1.4, "Main Analysis: Optimism about Overcoming Polarization Wave 2 (Long vs. Placebo)")

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Optimism about Overcoming Polarization Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $0.37^{***}$ & $0.34^{**}$ & $0.25^{***}$ & $0.25^{***}$ \\

```

```

##           & $(0.11)$      & $(0.11)$      & $(0.07)$      & $(0.07)$      \\
## \hline
## R2      & $0.04$      & $0.03$      & $0.02$      & $0.02$      \\
## Adj. R2 & $0.03$      & $0.03$      & $0.01$      & $0.01$      \\
## Num. obs. & $583$      & $583$      & $776$      & $776$      \\
## RMSE      & $1.27$     & $0.96$     & $1.12$     & $0.98$     \\
## \hline
## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item $^{***}p<0.001$; $^{**}p<0.01$; $^{*}p<0.05$. \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

```

Table SI.39

```
Y1.1 <- lm_robust(rebuild_trust_scale~treat_long_collapse2, final_drops, weights = ipw_matched_w2_noimp
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
Y1.2 <- lm_robust(rebuild_trust_scale~treat_long_collapse2, final_drops, weights = weight_w2, se_type =
```

```

## Warning in eval(quote({: Some observations have missingness in the weights
## variable(s) but not in the outcome or covariates. These observations have been
## dropped.

```

```
Y1.3 <- lm_robust(rebuild_trust_scale~treat_long_collapse2, final_drops, weights = ipw_full_w2_noimp, s
```

```
Y1.4 <- lm_robust(rebuild_trust_scale~treat_long_collapse2, final_drops, se_type = "HC1")
```

```
get_table_4(Y1.1, Y1.2, Y1.3, Y1.4, "Main Analysis: Time It Would Take to Rebuild Trust (reverse-coded)
```

```

##
## \usepackage{threeparttable}
##
## \begin{table}[H]
## \caption{Main Analysis: Time It Would Take to Rebuild Trust (reverse-coded) Wave 2 (Long vs. Placebo)}
## \begin{center}
## \begin{large}
## \begin{threeparttable}
## \begin{tabular}{l c c c c}
## \hline
## & Matched (IPWs) & Matched (No IPWs) & Full (IPWs) & Full (No IPWs) \\
## \hline
## treat\_long\_collapse2 & $0.33^{***}$ & $0.31^{**}$ & $0.20^{**}$ & $0.19^{**}$ \\
## & $(0.10)$ & $(0.10)$ & $(0.07)$ & $(0.07)$ \\
## \hline
## R2 & $0.03$ & $0.02$ & $0.01$ & $0.01$ \\
## Adj. R2 & $0.03$ & $0.02$ & $0.01$ & $0.01$ \\
## Num. obs. & $583$ & $583$ & $776$ & $776$ \\
## RMSE & $1.28$ & $0.97$ & $1.12$ & $0.99$ \\
## \hline

```

```

## \end{tabular}
## \begin{tablenotes}[flushleft]
## \footnotesize{\item  $\hat{\beta}^{***}p<0.001$ ;  $\hat{\beta}^{**}p<0.01$ ;  $\hat{\beta}^{*}p<0.05$ . \\ Robust standard errors are used}
## \end{tablenotes}
## \end{threeparttable}
## \end{large}
## \label{table:coefficients}
## \end{center}
## \end{table}

#### Figure SI.14 ####
#both short videos vs. long video
final_drops <- final_drops %>%
  mutate(
    treat_shortlong_collapse =
      case_when(
        video_treatment == "Treatment Long" ~ 1,
        video_treatment == "Treatment Short PMC" ~ 0,
        video_treatment == "Treatment Short VC" ~ 0
      )
  )

#polarization
full_vs_short <- lm(aff_pol_idx~treat_shortlong_collapse, final_drops, weights = ipw_matched_w2_noimp)

#outparty
full_vs_short_out <- lm(aff_pol_idx_outparty~treat_shortlong_collapse, final_drops, weights = ipw_matched_w2_noimp)

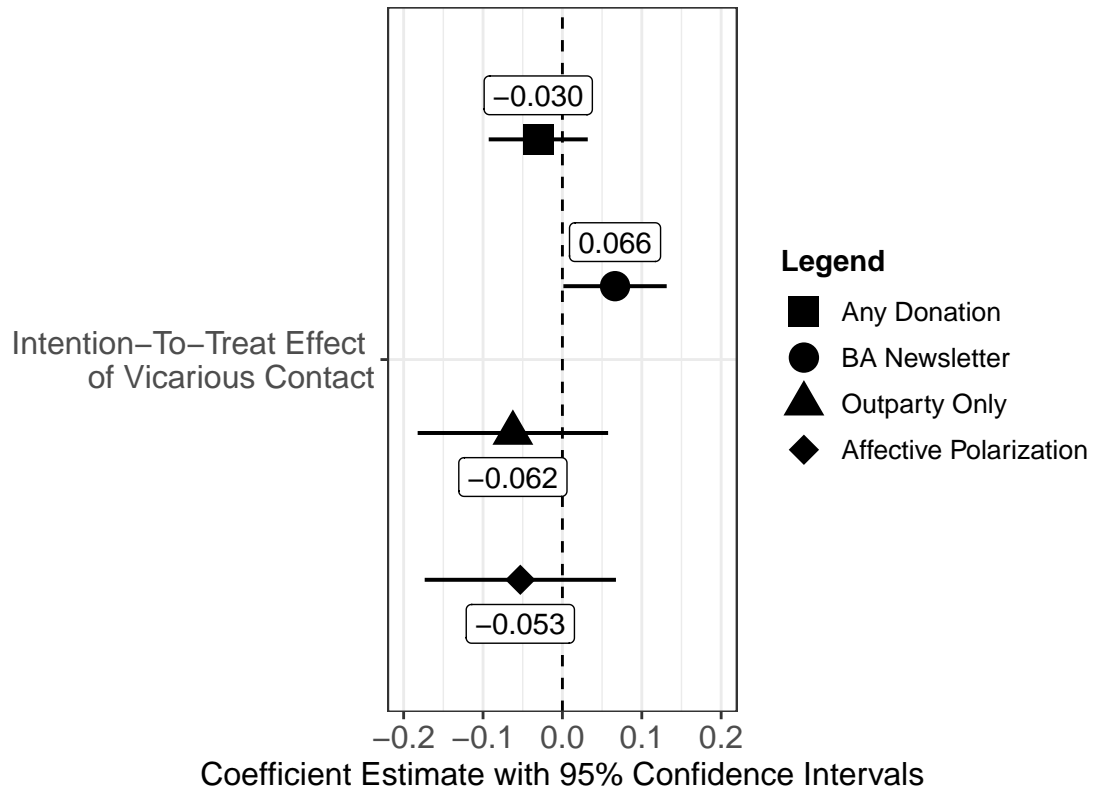
#BA newsletter
full_vs_short_newsletter <- lm(BA_newsletter_clicked~treat_shortlong_collapse, final_drops, weights = ipw_matched_w2_noimp)

#donation
full_vs_short_donate <- lm(donate_any~treat_shortlong_collapse, final_drops, weights = ipw_matched_w2_noimp)

short_vs_long_plot <- plot_generate_4_2(full_vs_short, full_vs_short_out, full_vs_short_newsletter, full_vs_short_donate)

short_vs_long_plot

```



```
#save
ggsave("Figures/SI/Figure_SI.14.png", plot = short_vs_long_plot, width=10, height=7)
```